

CAPE OF GOOD HOPE.

DEPARTMENT OF AGRICULTURE.

REPORT

OF THE

ACTING SURVEYOR-GENERAL

OF THE COLONY

FOR THE

YEAR ENDED 31st DECEMBER, 1908.

WITH APPENDICES.

TO WHICH ARE ANNEXED THE

REPORTS ON MINES AND DIGGINGS

OF

- (i) THE INSPECTOR OF MINES, KIMBERLEY, AND
- (ii) THE INSPECTOR OF CLAIMS, BARKLY WEST.

Presented to both Houses of Parliament by Command of His Excellency the Governor
1909.

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Report of the Acting Surveyor-General for the Year 1908.

Presented to both Houses of Parliament by Command of His Excellency the Governor
1909.

Office of the Surveyor-General,
Cape Town, April, 1909.

THE HONOURABLE
THE SECRETARY FOR AGRICULTURE,
CAPE TOWN.

Sir,— I have the honour to forward herewith my Report on the work done by this Department during the year 1908.

I have the honour to be,
Sir,
Your obedient Servant,
M. C. VOS,
Acting Surveyor-General.

I. GEODETIC OPERATIONS.

The Director of the Secondary Triangulation, Mr. J. J. Bosman, reports as follows:—

REPORT ON THE PROGRESS OF FIELD AND OFFICE WORK OF THE SECONDARY TRIANGULATION OF THE CAPE COLONY DURING THE YEAR ENDED DECEMBER 31, 1908.

I. Fieldwork.

The field operations during the past year have been as follows:—

(1) *Continuation of the Secondary Triangulation in the Divisions of Worcester, Montagu, Bredasdorp, Swellendam, Riversdale, and Ladismith.*—It is extremely gratifying to report that Mr. B. de V. Heatlie has made very satisfactory progress with the fieldwork. Eighty secondary points have been selected, permanently marked and beacons by him. Of this number forty-six are stone piles, thirty-three are concrete pillars, and one is an iron structure firmly fixed into holes drilled into solid rock. He also replaced Sergeant Duff's pile at Scherpenheuvel, which was wholly down, by a concrete pillar, and reconstructed eleven of Captain Bailey's Trigonometrical piles, viz.:—Anysberg, Wagenboomsberg, Aasvogelberg, Langenberg, Roodeberg, Touwsberg, Sevenweeksport, Toverkop, Hex Riviersberg, Grootebosch, and Trompskop. Of these new beacons the first nine are stone piles, and the latter two concrete pillars. Seventy-seven stations were occupied for the measurements of horizontal and vertical angles. The probable error of an observed angle as derived from the closing errors of 171 triangles is $\pm 0''\cdot 51$. This result is most creditable to Mr. Heatlie.

The average error of closure in triangles and polygonal figures as derived from Heatlie's measured angles of elevation and depression and the previously determined lengths of the lines connecting the intervisible points is 1·43 feet.

In November last the measurements of angles had to be temporarily suspended, owing to a most unfortunate accident which caused considerable damage to the 8-inch Repsold Theodolite, which was lent to Mr. Heatlie by the Government for the observing work. This instrument was at once sent back to Messrs. Repsold, of Hamburg, for repairs at Heatlie's own cost.

(2) *Continuation of the Secondary Triangulation in the Divisions of Malmesbury, Piquetberg, Clanwilliam, and Ceres.*—I much regret having to report that Mr. A. A. D. Malherbe has made very little progress with the fieldwork. During the past year he observed at only 19 stations, and constructed two concrete beacons, viz.:—One for replacing the pile at Theefontein, the stones of which were found to be inclined to dissolve when wet, and the other at Velddrift between two stations

which are too far apart for the purpose of this survey. The total number of stations occupied by him since he started with the observations (November, 1905) is only 29. This work includes 16 triangles in which all the angles have been observed, and 17 in each of which only two angles are measured. The mean triangle closure of the former is $4''\cdot 7$. This result is not satisfactory, seeing that it exceeds the average closing error allowed.

Map marked A (see after appendix) shows the progress of the Secondary Triangulation in the Western and South-Western Divisions of the Cape Colony from the 1st April, 1903 (the date of its commencement), up to the 31st December, 1908.

(3) *Continuation of the Secondary Triangulation of Griqualand East.*—Mr. A. K. Green has selected and permanently marked forty secondary points and constructed a stone pile over each of them. He has reconstructed Colonel Morris's geodetic stations Zwartberg, Jumbla, Mungunung and Malowe, all of which were in a bad state of repair. Twenty-nine stations forming thirty-seven triangles were occupied by him for the measurements of angles. The probable error of an angle as derived from the triangular errors of the above number of observed triangles is $\pm 1''\cdot 1$.

The average error of closure in triangles and polygonal figures as determined from Mr. Green's observed vertical angles, and the computed lengths of the lines between the intervisible points is 1·48 feet.

Map marked B (see after appendix) shows the completed survey of Pondoland and the progress of the secondary triangulation of Griqualand East up to the 31st December, 1908.

(4) *Secondary Triangulation of the Idutywa District.*—The object of this work, entrusted to Mr. E. G. Hall, is to determine the relative horizontal positions and the vertical heights above sea-level of a sufficient number of points as a basis for detailed surveys of allotments and for future topographical operations in the Idutywa District. Mr. Hall has already completed the reconnaissance which necessarily precedes the beaconing work and the measurements of angles. A sketch of the proposed triangulation submitted for approval shows that he has selected 19 points which, together with the station Cweeweni of the Geodetic Survey and the stations Hlobo and Gwadana of the Fingoland Triangulation, form a network of 31 well-conditioned triangles.

The work is to start from the side Cweeweni-Hlobo as base, and close on the side Darabe-Ezeleni, the western end of the Pondoland triangulation. This connection will serve as a check on the accuracy of the Pondoland and Fingoland surveys. As soon as the construction of concrete beacons over the selected points is completed a commencement will be made with the measurements of angles.

II. Office Work.

The following work was accomplished in the office during the past year:—

(1) *Reduction and computation of fieldwork* of (a) Mr. Heatlie, (b) Mr. Green, and (c) Mr. Malherbe, viz.:—(i) Reduction of field-books containing observations made at (a) 77, (b) 36, and (c) 19 stations, (ii) adjustment of the measured angles of (a) 171, and (b) 33 triangles by the method of least squares, and of (c) 33 triangles by the ordinary method, (iii) calculation of the rectangular spheroidal co-ordinates, latitudes, longitudes and heights of stations, the results of which are given (a) in Appendix I., and (b) in Appendix II., and (iv) calculation of the plane co-ordinates of Mr. Malherbe's survey, the results of which are given in Appendix III.

(2) Transformation of the co-ordinates of stations and beacons of some of the better surveys made in the past, which are based on, or were subsequently connected with the general triangulation, into the co-ordinates of the geodetic system. During the last two years the co-ordinates of 1,356 such points have been transformed. The results are not published as yet, but a large number of these co-ordinates has, on application, been supplied to the Military for horizontal control of their topographical operations, and to Colonial surveyors for the purpose of farm surveys.

(3) Projection of the Map of Cape Colony and the adjoining States, between latitudes 26° and 35° south of the equator and between longitudes 16° and 32° east of Greenwich, on the scale of 5,000 Cape rods to 1 inch, and the plotting on it of all the stations of the Geodetic Survey of South Africa, and of the Secondary and other triangulations.

Vertical Heights of Stations.

In my report for the year 1905, I stated, *inter alia*, (a) that the stations Cape Point and West End Base, whose heights above mean sea-level were obtained by Sir Thomas Maclear with the spirit-level, have been adopted as base points for the determination of the heights of the triangulation points; (b) that, while the heights of the stations King's Battery, Tygerberg, Capoc Berg, Riebeek's Kasteel, Simonsberg, Sneeukop and Kogelberg as computed from Mr. Heatlie's vertical angulation agree

very closely with those derived by Sir Thomas Maclear from his observed Zenith distances of stations, it was found that the heights of the stations Mudge Point, Danger Point, Zwartberg, and Babylons Toren, as determined from the former's observations, differ considerably from the results obtained by the latter; and (c) that the question with regard to the most probable value of the height of each of the latter four stations will be finally settled when the secondary triangulation has been extended to the stations Cape L'Agulhas, the height of which was also determined by Sir Thomas Maclear with the spirit-level.

This work was accomplished by Mr. Heatlie in 1907. On computing through the chain which connects Cape L'Agulhas and also the four stations referred to with Cape Point, it was found that the height of Cape L'Agulhas as determined by Heatlie's Trigonometrical levelling agrees with that derived by Sir Thomas Maclear within one foot. This shows conclusively that the heights of Babylons Toren, Zwartberg, Mudge Point and Danger Point as determined from Heatlie's work are practically correct.

II. INDIVIDUAL TENURE IN NATIVE LOCATIONS.

Butterworth District, Transkei.—The survey has now been completed of 261 garden lots and a number of building lots at Location 13, called Butterworth Mission.

Tsomo District, Transkei.—The survey work in connection with the locations and allotments in this District is practically completed, all the plans and diagrams having been handed in with the exception of one plan of one location.

Idutywa District, Transkei.—Mr. E. Gilbert Hall, Surveyor-in-Charge, reports that the field work in connection with the preliminary inspection and allotment of land for individual tenure in this District has been completed. In the 11 locations of which the District is composed the total number of 7,228 allotments has been dealt with, and the beacons dividing the locations from one another are now being erected.

Newlands Location, East London Division.—An additional number of garden lots has been laid out in this location, bringing the total number available for allotment to natives to 308, the allocation of which has been commenced.

Jaftha's Location, King William's Town Division.—The survey of this location has also been completed during the year, 275 garden lots having been laid out for grant to natives, and a commonage of about 1,000 morgen beaconed off for the lot-holders.

Additional garden and building lots have also been laid out at Annshaw and Mbem's Locations in King William's Town Division, while a re-survey of allotments at Newtondale Mission Station, Peddie, was also completed during the year.

All the above surveys were connected with the Secondary Triangulation of Cape Colony with the exception of that at Idutywa. The necessary connection in this instance will, however, be made at an early date by the extension of the Triangulation over Idutywa District, and the linking up of the forthcoming location surveys therewith.

III. SURVEY OF CROWN LANDS.

The most important survey of vacant Crown Land which has been carried out during the past year is that of a portion of Namaqualand, Mr. Alston having laid out for disposal a number of farms in that division. The greater part of this land, although dry, appears to be eminently suitable for European occupation, and up to the present has been chiefly used by nomadic families who have moved with the water supply, or by more or less settled inhabitants who have occupied unsurveyed land under authority of leases or grazing licences. It is hoped that the allocation of the farms laid out by Mr. Alston will be completed at an early date.

Owing to drought and other causes little headway has been made with the other two portions of the general survey of Namaqualand mentioned in my last report.

Queenstown Commonage has been surveyed and granted to the local Municipality under Section 10 of Act 15 of 1887.

A number of small isolated pieces of Crown Land scattered throughout the Colony, including one or two farms which had not previously been alienated from the Government, have been surveyed with a view to sale at public auction, while Mr. Surveyor Shaw has commenced the work of subdividing into farms that part of the Port St. John's district which has been acquired for European occupation.

The survey and subdivision into farms of an extensive piece of land, which was acquired by the Government in connection with the Thebus Irrigation Scheme, has also been put in hand. The farms thus being laid out at Port St. John's and Thebus will probably be available for disposal at a comparatively early date.

IV. SURVEY AND EXPROPRIATION OF MILITARY CEMETERIES UNDER ACT 14 OF 1900.

Eight Cemetery sites have been expropriated and transferred to the Colonial Government during the year 1908, in accordance with the provisions of Act No. 14 of 1900. Several new graves have been discovered and are being dealt with in conjunction with the special Graves Committee for the Cape Colony appointed by the High Commissioner in 1905. It is satisfactory to note that many of the owners from whom ground has been expropriated have refrained from claiming any compensation for the land, thereby greatly facilitating the work of this department.

The official alphabetical list of all soldiers who died in the Anglo-Boer War and were buried in the Cape Colony has now been placed on sale both in South Africa and in Europe. Copies can be obtained from the Stationery Department in Cape Town and the Agent-General's Office in London.

The marking of the graves, which has been carried out entirely by the Guild of Loyal Women, has now been practically completed. The maintenance of all out-lying sites is still being carried out by the department of the Colonial Secretary.

V. SURVEY AND EXPROPRIATION OF BURGHER CAMP BURIAL GROUNDS.

The Imperial, Colonial and Republican Forces Burial Grounds Extension Act, 1908, provides for the survey, expropriation, fencing and maintenance of all burial places in the Cape Colony which contain the remains of persons who died in Burgher Concentration Camps. Up to the end of 1908 notification of twelve such cemeteries had been received, the majority being situated on Commonages in close proximity to the larger towns. Three of these, viz., those at Mafeking, have been surveyed and reserved from alienation, and the remainder are being similarly dealt with.

VI. EXPROPRIATION OF BLOCKHOUSE SITES UNDER ACT NO. 3 OF 1887.

All the blockhouse sites required by the Imperial Government, numbering twenty-six, have now been expropriated and transferred to the Government. This work has taken nearly five years to complete, and in nearly every case, owing to the exorbitant demands of the owners of land, a very lengthy correspondence ensued before a price could be agreed upon.

The total amount spent in the expropriation of these sites is £1,617. This sum includes survey expenses, compensation and cost of conveyancing, as well as the costs of arbitration in one case.

VII. ADMINISTRATION OF THE BOEDEL ERVEN ACT, 1905.

During the year 1908 fifty-three transfers of sub-divisions of Boedel Erven have been passed, making a total of 331. Only one transfer now remains to be effected.

The work of sub-dividing the Commonages under Sections 9 and 10 of the Act is progressing. The survey and sub-division of Mancazana and Maasdorp was completed towards the middle of 1908, and nine grants have been issued in the former case and ten in the latter. Other Commonages surveyed are Ebenezer West and Gonzana, for grant to Messrs. Tidbury Brothers and Mr. Hockley respectively, and Upper Blinkwater. An application has lately been received for permission to subdivide the Commonage of Cupido Davids.

VIII. NATIVE TOWNSHIPS ACT, 1908.

Two applications have been received for permission to establish native townships under Act 44 of 1908, one from a settlement of coloured persons at Matrozenfontein, near Elsies River Halt, in the Cape Division, and the other from Mr. Edwin Goddard, of Goddardton, Division of East London. Both cases are still under consideration.

IX. OPERATION OF THE VARIOUS ACTS FOR THE DISPOSAL OF CROWN LANDS.

1. *Sale of Crown Lands under Section II, Act 15 of 1887.*—The results of the sales of Crown Lands under Section II, Act 15 of 1887, may be considered fairly satisfactory, and, judging from the prices realised, more particularly for farms situated in the North-western Divisions, may be considered as an indication that the Colony is, in so far as the farming community is concerned, recovering from the depression which has assailed all classes of the community during the past few years.

109 farms were submitted to public auction during 1908, and of this number 60, representing an area of 161,461 morgen, were disposed of for a total purchase amount of £31,773, being an average price of 3s. 11d. per morgen.

The cost of survey of the lots sold, amounting to £1,496 0s. 3d., has been recovered from the purchasers.

2. *Sale of Crown Lands under Section XIII, Act 15 of 1887.*—Section XIII, Act 15 of 1887, empowers the Government to sell, out of hand, at a sum which shall not to be less than the upset price, such lots of Crown Land as may have been offered for sale under the Second Section of the Act, and have remained unsold, provided application for the purchase thereof be made within twelve months from the day of sale.

59 lots have been authorised to be sold under Section 13, Act 15, 1887, for a total purchase amount of £2,507, viz.: 18 farms representing an area of 25,286 morgen for a total purchase amount of £1,965, and 41 village lots for a total purchase amount of £542.

The cost of survey of the land so disposed of, amounting to £462 12s. 5d., will be recovered from the purchasers.

3. *Sale of Leases under Sections 4 and 6 of Act 26 of 1891.*—(a) Section 4, Act 26 of 1891, provides for the leasing of Crown Lands for any term not less than one year and not exceeding five years at the highest rent obtainable at public auction. 133 farms and lots of Crown Land have been leased during 1908 for periods ranging from one to five years at a total annual rental of £986 1s.

(b) Land which has been acquired by the Government from a private owner may, under Section 6 of Act 26 of 1891, be disposed of on such terms and conditions as may be thought expedient by the Government with the concurrence of Parliament. Seven farms in Barkly West Division, acquired by Government in connection with the proposed Hartz River Irrigation Scheme, have, with the consent of the Legislature, been leased at public auction for periods varying from five to twenty-one years at a total annual rental of £143.

4. *Sale of Town or Village Lots.*—During the past year 198 Building Lots, situate in various towns and villages in the Colony—principally in the Villages of Longlands, Maclear and Tsomo, respectively, were offered for sale at public auction, of which 112 were disposed of for a total purchase amount of £3,036 15s., the costs of survey of the lots sold, amounting to £387 17s. 3d., have been recovered from the purchasers.

5. *Grants under Sections VI, VII (a), X and XII, Act 15 of 1887.*—(a) Fifty-one Title Deeds under the 6th Section of Act No. 15 of 1887 have been issued during the year, the extent alienated being 1,949 morgen 500 square rods 71·38 square feet. The purchase amount realised was £45 10s., and the amount of survey expenses recovered in connection with these titles was £473 16s. 10d.

(b) Under Section VII (a) three Title-deeds have been issued, the extent alienated being 10 morgen, 300 square rods, the annual quitrent payable, £22, and the amount of survey expenses recovered, £20 4s. 6d.

(c) Forty-eight grants have been made under the tenth section of the Act, by which an area of 8,591 morgen 344 square rods 128·46 square feet has been alienated. The refund of the surveying expenses amounted to £774 3s.

(d) Seventy-two grants have been made under the twelfth section of Act 15 of 1887, by which an area of 175,716 morgen and 103·95 square feet has been alienated at a purchase price of £173, and an annual quitrent of £5 8s. The amount recovered in survey expenses being £1,734 15s. 4d. This area includes 49 farms in the Division of Vryburg, the property of the Rhodesia Railways, Limited, on which no purchase money or quitrent is payable, the land being a portion of the Second Railway Land Grant.

6. *Sales under Section XIV, Act 15 of 1887.*—The fourteenth and three following sections of Act 15 of 1887 provide for the sale, at a valuation, to owners of private property, of Crown Lands adjoining their farms. All applications to purchase land under these sections have to be duly announced in the "Government Gazette," and after consideration of any representations made for or against such applications, it is decided whether the land applied for, or any part of it, shall be sold to the applicants.

During the year fifty-four Title-deeds have been issued, the extent disposed of being 14,610 morgen 584 square rods 85 square feet, the purchase amount realised being £3,012 10s., and the sum recovered as reimbursements of surveying expenses £824 1s. 2d.

7. *Sales under Section VI, Act 26 of 1891.*—Seven grants under Section VI, Act 26 of 1891, were issued during the year, conveying an area of 7 morgen 553 square rods 55·1 square feet. The purchase amount realised was £750, and the amount of survey expenses recovered £48 11s..

8. *Grants under Section III, Act 40 of 1895.*—Three Title-deeds were issued under this section of Act 40 of 1895, the total extent granted being 39 morgen 145

square roods 133 square feet, and the amount of survey expenses recovered £187 16s.

9. *Redemption of Quitrent for the period 1st January to 31st December, 1908.*—The amount received under this head during the year was £1,403 7s. 6d., showing a decrease of £2,428 15s. 2d., as compared with the receipts in 1907.

10. *Mortgage Bonds under Act No. 15 of 1887 (as amended by Act No. 40 of 1895), and under Section XVIII of Act No. 40 of 1895.*—Sixty-nine mortgage bonds under Act No. 15 of 1887, as amended by the 4th Section of Act No. 40 of 1895, and seventeen under the 18th Section of the latter Act have been passed during the year, representing a total sum of £18,986 18s. 4d.

11. *Section XVIII, Act 37 of 1882 (as amended by Section XXIV, Act 15 of 1887), Conversion of Licences into Quitrent Grants.*—Section XVIII, Act 37 of 1882, has been amended by Section XXIV, Act 15 of 1887, as follows:—In lieu of the eighteenth Section of “The Agricultural Lands Act, 1882,” the following shall be substituted: At the expiration of any licence, and on the fulfilment of the terms and conditions of such licence, the licensee shall obtain a Title-deed, on quitrent tenure, at an annual quitrent equal to the yearly licence fee, and subject to the conditions stated in the fifth section of this Act.

Twenty-one licences have been converted into quitrent grants during the year. The extent so alienated is 2,561 morgen for a total annual quitrent of £28 7s. The cost of survey of the allotments, amounting to £272 14s. 11d., has been recovered from the grantees.

12. *Act 37 of 1882—Allotment of Agricultural Holdings.*—Act 37 of 1882, as amended by Act 40 of 1895, provides for the granting to approved applicants, at a licence fee to be fixed by the Government, of allotments of Crown land, not being forest land, and not exceeding 250 morgen, and not less than four morgen in extent, such applicants being persons twenty-one years of age and upwards, who are not the possessors of land to the extent of 250 morgen, and who are not already the holders of land under this Act.

Nearly all of the allotments originally laid out for the purposes of Act 37 of 1882 having been disposed of, thus leaving a very small number to select from, the operations under this Act became almost entirely suspended during the past year, with the result that only one licence has been issued for a licence fee of £1 10s. 6d.

13. *Lease of Mineral Lands.*—(a) *Under Acts 9 of 1877 and 15 of 1883, and Government Notice No. 633 of 1900.*—These regulations provide for the leasing, for mining purposes, of Crown Land, containing or supposed to contain mineral deposits, for any term not exceeding ninety-nine years, subject to a ground rent of five shillings per morgen per annum.

These leases do not convey to the lessees any rights or title to gold, silver, or platinum, or to any precious stones which may be found on the land so leased.

Three leases under the above Acts have been issued during the year. The total extent so leased is 298 morgen 289 square roods, bringing in a total annual rental of £74 12s. 5d.

The above-mentioned Acts having been repealed by Section 32 of Act 16 of 1907, the issue of leases under these provisions will now cease.

(b) *Under Section 49 of Act No. 16 of 1907.*—This Section of the Act is as follows:—“All persons holding, or being entitled to, existing leases or rights of occupation of Crown Land for mining purposes, may, upon the taking effect of this Act, surrender such leases or rights, and thereupon obtain leases under this part of the Act to commence from the date of such leases, but without the privilege of one year free of rent conferred by Sub-section (e) of Section forty-two.”

No less than 27 leases under Acts 9 of 1877 and 15 of 1883 have been surrendered, and new leases under Act 16 of 1907 have been issued in lieu thereof.

The total annual rental payable under the surrendered leases amounted to £635, whereas that payable under the new leases now amounts to £268.

(c) *Under Section 42 (Part II.) of Act 16 of 1907.*—Leases under this part of Act 16 of 1907 are granted solely for the purpose of Mining for Base Minerals, and shall be for a term of one year, with the right of renewal from time to time at the option of the lessee for any period, but not exceeding a total period of 99 years, and shall be subject to a rental not exceeding a rate of one shilling per acre per annum, and to a royalty of one pound per centum on the gross amount realised by the sale of Minerals won.

Nine leases under these provisions have been issued during the year, the extent leased being 4,682 acres for a total annual rental of £234.

14. *Selection of Crown Lands under Act 40 of 1895.*—Act 40 of 1895 provides for Crown Land being declared open for selection at fixed prices, to persons not possessed of any landed property, upon condition of personal occupation, and subject to an annual payment of one-twentieth of the purchase price fixed, which includes all

expenses, such as survey and title-deed, no interest being chargeable on the unpaid instalments, thus giving purchasers twenty years in which to pay off the full purchase amount.

Thirteen farms have been allotted under Act 40 of 1895 during the year ended 31st December, 1908, representing an area of 56,379 morgen, for a total purchase amount of £4,605, in which is included the cost of survey and title, amounting to £424 3s. 1d.

15. *Allotment of Farms in the First Railway Land Grant, Bechuanaland, under Act 23 of 1893, and Parliamentary Resolution, dated 27th and 28th May, 1904.*—With reference to the 6,000 square miles (=1,814,283 morgen) of land, in what was formerly known as British Bechuanaland, acquired by the Colonial Government conjointly with the British South Africa Company, it was, in terms of an agreement, dated 23rd January, 1890, between the Government and the said Company, agreed, with regard to the construction of the railway line to Vryburg, that if the Cape Government took over the line on or before the 30th June, 1891, it would be entitled to share in proportion of two to one with the Company in the proceeds of all lands that may have been sold, and be a partner in the same proportion in whatever lands may, at the date of purchase of the railway line, remain unsold. The taking over of the railway was authorised by Section 3 of Act 13 of 1890.

Act No. 23 of 1893, entitled "The Northern Railway Land Disposal Act," contains the conditions under which this land is to be disposed of.

During 1908 thirteen farms have been allotted to approved applicants in terms of the stipulations contained in a Resolution adopted by the House of Assembly on the 27th May, 1904, and concurred in by the Legislative Council on the 28th idem.

The area so alienated is 65,803 morgen for a total purchase amount of £10,627, in which is included the cost of boring for water and of survey and title-deed, amounting to £4,019 7s. 9d.

16. *Sales of Outspans under Act 41 of 1902.*—Section 3 of Act 41 of 1902 stipulates that "from and after the taking effect of this Act it shall be lawful for the Governor:—

"To resume such outspan ground, being Crown Land, as is no longer used and required for outspan purposes, and to cancel the outspan servitudes therein, and to dispose of such land under the laws for the time being regulating the disposal of Crown Lands."

Sales under this Act are made subject to the provisions of Act 15 of 1887, save that the purchase price is payable in cash on the day of sale.

The alienation of any outspan or portion thereof is subject to the consent of the Divisional Council.

The only land sold under this Act during 1908 is Lot A of the Little Thomas River Outspan, Division of Cathecart, in extent 145 morgen 485 square roods, which realised a purchase amount of £507. The cost of survey of this lot, amounting to £28 3s. 9d., was recovered from the purchasers.

17. *Act No. 19 of 1907.—Assignment and Sub-division of Commonages for certain Immigrant Locations in Divisions of East London and Komgha.*—Act No. 19 of 1907 stipulates that it shall be lawful for the Governor to assign lands not being arable lands as commonage for the holders of allotments in the Agricultural Immigrant Locations of Kwelegha, Upper Gonubie, Brakfontein, Lily Fontein, and Van der Kemp, in the Division of East London, and of Kwelegha, in the Division of Komgha, irrespective of the Acts under which the several allotments are held, and, upon the petition of the registered owners of not less than three-fourths of the allotments in any one of the said locations, to sub-divide the Commonage assigned to it into sections equal in number to the arable lots in such locations, and thereupon the holder of each arable lot shall be entitled to purchase one section of such sub-divided Commonage at an annual quitrent to be fixed by a Land Board appointed in terms of Section V of Act 37 of 1882.

The Commonage of Van der Kemp's Location has, in terms of the above Regulations, been sub-divided into allotments, and holders of arable lots entitled to purchase such allotments have been duly advised of the payments to be made by them in the event of their deciding to become purchasers. Three Commonage allotments have, up to the 31st December, 1908, been disposed of. The area so alienated being 367 morgen, for a total annual quitrent of £12 19s. 5d. The cost of survey of these lots, amounting to £45 7s. 2d., has been recovered from the purchasers.

18. *Act No. 27 of 1907 (Part III).—Dredging for Precious Stones.*—In terms of Part III. of Act No. 27 of 1907 the Governor may grant leases for the purpose of dredging and sluicing for precious stones in any public river, the bed of which, within the limits of the leased portion, is not vested in any private individual, upon

such terms and conditions, subject to the provisions of this Act, as may be agreed upon.

The lease may be for any length of a river not exceeding four miles, the lease shall be for a period of three years, renewable from time to time at the option of the lessee, but not to exceed a period in all of nine years, and shall be subject for the first year to a rental of £5 per mile per annum, calculated from the date of commencement of dredging operations, and to a royalty of One Pound per centum on the amount realised by the sale of precious stones won during the second and succeeding years of such lease.

Fourteen (14) Leases, each extending over a length of four miles, on the Orange River, have been issued under this Act for a total rental, payable for the first year, of £280.

X. GRANTS OF ALLOTMENTS TO NATIVES.

Under Act No. 25 of 1894.—One hundred and seventy-nine Title-deeds under Act No. 25 of 1894 were issued to allotments in the various Locations in the Glen Grey Division, conveying an extent of 875 morgen 316 square roods, at a total annual quitrent of £143 14s.

Under Proclamation No. 227 of 1898.—Three hundred and ten Title-deeds to allotments in the Native Locations in the District of Butterworth were issued, conveying 1,438 morgen 324 square roods, at a total annual quitrent of £254 19s.

In the Nqamakwe District 333 Title-deeds to allotments in Native Locations were issued, conveying 1,762 morgen 1 square rood, at a total annual quitrent of £283 1s., and in the Tsomo District 1,591 Title-deeds, conveying 8,349 morgen 15 square roods, at a total annual quitrent of £1,377 11s.

The total extent alienated during the year, under the above Act and Proclamation, is 12,425 morgen 56 square roods, at an annual quitrent of £2,059 5s.

XI. LANDS GRANTED AND SOLD TO WHICH TITLE-DÉEDE HAVE BEEN ISSUED DURING THE YEAR 1908.

Three thousand one hundred and ten Title-deeds have been issued during the year, conveying an extent of 663,009 morgen 323 square roods and 84 square feet; the total purchase amount realised being £26,938 3s. 11d., and the total annual quitrent payable being £2,681 6s. 7d. Sixty-seven of these titles, representing an area of 136,517 morgen 241 square roods and 104 square feet, upon which an annual quitrent of £144 6s. 11d. is payable, were, however, issued after amendment under the Land Beacons Acts; the exact extent alienated during the year 1908 is, therefore, 526,492 morgen 81 square roods and 124 square feet, and the amount of annual quitrent added to the revenue £2,536 19s. 8d.

A statement showing the number of titles to land issued, extent alienated, purchase amount paid, and annual quitrent payable in each year since 1904, and also a memorandum of the area disposed of and remaining undisposed of on the 31st December, 1908, will be found on reference to Appendices V. and VI.

XII. RESUMPTION OF LAND.

A return giving the details of the resumptions which have taken place during the past year, under Act No. 3 of 1879, as amended by Acts Nos. 24 of 1887 and 15 of 1895, under Act No. 27 of 1887, Sections I. and II., and under Act No. 40 of 1895, Sections 21 and 22, will be found on reference to Appendix VII.

XIII. AMENDED REGISTRY UNDER THE LAND BEACONS ACTS.

Sixty-six Title-deeds have been issued during the year 1908 under the provisions of the Land Beacons Amendment and Extension Act, No. 9 of 1879, twenty-five are awaiting the production of additional documents to enable me to proceed with them, eighteen are in various stages of completion, and six have been withdrawn. Thus it will be seen that one hundred and fifteen cases in all have been dealt with during this year under the abovementioned Act.

One amended Title has been issued during the past year under the Land Beacons Consolidation Act No. 7 of 1865, in favour of J. P. W. Odendaal to land called "Groot Vley," situate in the Division of Albert.

XIV. MINING OPERATIONS.

(1) *Precious Stones.*—During the year 1908 a number of new alluvial diggings were proclaimed and some of the existing ones extended, particulars of which are given in the Report of the Inspector of Claims, Barkly West.

The only digging of interest is the Mahura Muthila Alluvial Digging, since it is the first one proclaimed in Bechuanaland, being situated in the District of Kuru-

man. It was opened for pegging out of claims on the 11th December, on which day 124 claims were pegged out. Altogether 169 claims were pegged out during December, in addition to the 20 Discoverer's and 50 Owner's claims. By the end of December the total of diamonds registered at the digging was $8\frac{3}{4}$ carats, valued at about £31.

(2) *Precious Minerals.*—A certain amount of alluvial digging continues in the Millwood Goldfields, in the Division of Knysna, and the amount of gold registered during 1908 slightly exceeded that of the previous year.

At the Spreeuwfontein Digging, in the Division of Prince Albert, no digging has been done during the whole of the year.

The hopes centred in the Madibi Reef Digging, in the Division of Mafeking, have unfortunately not been realised. Comparatively little work has been done during the year, chiefly owing to lack of funds on the part of the various Syndicates, some of whom have for the same reason applied for extension of the time within which the law requires them to commence and carry on work. A considerable number of claims have been abandoned.

As a number of alleged discoveries of platinum had been reported from time to time, and as especially towards the latter part of 1907 great excitement prevailed regarding what purported to be extremely rich finds of platiniferous ore in Albany and Bathurst, the Government decided in the interest of the public to make an official investigation in order to set all doubt at rest.

The Valentine Platinum Syndicate was accordingly approached, and it was agreed that a Commission, consisting of Captain Quentraill, Inspector of Mines, Kimberley, Professor Andrew Young, of the South African College, and Mr. C. F. Juritz, the Senior Analyst, should inspect the alleged discoveries and select samples for analysis by the said Senior Analyst, by Professor Hahn, of Cape Town, by Messrs. Johnson, Matthey & Company, Assayers, of London, and by Mr. Brunn, Assayer to the Standard Bank, Johannesburg.

The results were most disappointing:—

Messrs. Johnson, Matthey & Co. reported finding 6 grains in case of 2 samples, 4 grains in case of 2 samples, 8 grains in one sample, and traces only in two other samples. (All per ton of 2,240 lbs.)

Professor Hahn and Mr. Brunn reported that the samples did not contain any platinum or metal of the platinum group, and Dr. Juritz reported the same in regard to all samples but one; in this sample he reported finding an imponderable trace, estimated at less than 2 grains to the ton.

A return of all Mines and Diggings for Precious Stones and Precious Minerals on Crown Lands and lands subject to Mineral Reservation will be found in Appendix VIII.

The issue of Prospecting Licences for Precious Stones and Precious Minerals is less than last year, being as follows:—83 for 6 months, 734 for 3 months, and 959 for one month. The revenue from this source is £457 7s. 6d.

(3) *Base Minerals.*—An increased interest has been evinced in prospecting for Base Minerals, as will appear from the fact that during the year 2,931 prospecting licences, for one month each, were issued, yielding a revenue of £146 11s., as against 80 permissions to prospect—now obsolete—and 266 prospecting licences in 1907.

A complete return of Base Mineral leases extant during the year 1908, showing the royalty paid during the year, appears in Appendix IX.

The amount of Tin Ore exported during the year, as obtained from statistics of the Customs Department, shows a marked decrease against the last two years, as the following shows:—

1906	Tin Ore exported	2,119 cwt.,	valued at	£11,564.
1907	"	3,569 "	"	£18,541.
1908	"	1,230 "	"	£4,836

The value of the Tin Ore is also intrinsically less.

The production of Asbestos has increased, as 1,374·59 Imperial tons, valued at about £20,697, were exported.

During the year 52,122 cwt. of Manganese Ore were exported, valued at £1,326.

XV. COMPIILING, DRAFTING, AND LITHOGRAPHING.

Details of the principal items of work performed in this branch of the Department will be found in Appendix X.

XVI. EXAMINATION OF DIAGRAMS.

The number of diagrams examined in this Office during the year was 3,873, of which 3,707 were found to be consistent and the remainder (166) inconsistent or incomplete.

The percentage of diagrams found consistent was consequently 95·7.

XVII. CANDIDATES FOR SURVEY EXAMINATION.

The usual examination in the Practice of Land Surveying was held at Cape Town, Grahamstown, Pretoria, and Salisbury during the month of March, 1908. Forty-five candidates presented themselves, of whom the following were successful:—

1. S. Cameron.	7. C. S. Douglas.	13. T. T. Stranack.
2. S. de Smidt.	8. H. K. Matthews.	14. O. B. Reitz.
3. M. G. Parsons.	9. E. H. Jenkinson.	15. A. O. Shone.
4. F. K. von Mengershausen.	10. C. P. Piers.	16. F. Maskew, jun.
5. J. H. Steere.	11. J. G. W. Leipoldt.	17. P. A. Louwrens.
6. A. M. Brand.	12. W. G. Golightly.	

Upon the recommendation of a Select Committee of the House of Assembly a special examination was held at Cape Town and Salisbury in February, 1908, for those who had failed in the previous examination in March, 1907. Twenty-five candidates presented themselves, of whom the following were successful:—

1. T. T. Stranack.	4. F. W. A. Taylor.	7. W. G. Golightly.
2. S. de Smidt.	5. H. J. Twamley.	
3. F. I. Phillips.	6. A. M. Brand.	

Of the above-mentioned candidates, and of those who have passed the examination previously, the following, after satisfactorily completing their trial surveys, were admitted to practise in this Colony during the year 1908:—

1. A. J. J. B. Simons.	7. S. de Smidt.	13. F. K. von Mengershausen.
2. C. E. Cock.	8. C. P. Piers.	14. C. S. Douglas.
3. R. D. Jackson.	9. J. G. W. Leipoldt.	15. P. A. Louwrens.
4. K. R. S. Tucker.	10. H. J. Twamley.	16. F. O'D. Rice.
5. P. Moorshead.	11. M. G. Parsons.	
6. A. M. Brand.	12. N. W. Jarvis.	

XVIII. STAFF.

After 40 years' faithful and zealous service Mr. M. J. Brink, Chief Draughtsman, retired on pension from 1st June, 1908.

Mr. M. du T. van Niekerk was transferred in February, 1908, to the Law Department.

M. C. VOS,
Acting Surveyor-General.

SECONDARY TRIANGULATION.

Divisions of Worcester, Robertson and Montagu.

APPENDIX I.—Spheroidal Rectangular Co-ordinates, Latitudes, Longitudes and Heights above Mean Sea Level of Stations.

Stations.	Spheroidal Rectangular Co-ordinates (Cape Roads).	Height of Base of Beacon above M.S.L. (English feet).	Latitude.	Longitude.
Boesmans Rivier ...	y 9755·961 + 18274·977	992·3	34° 0' 12" 809	20° 4' 6" 003
Bonnie Vale ...	- 9568·546 + 15964·524	1607·2	33 55 29·574	20 3 37·113
Zandvliet ...	- 8508·029 + 13008·546	879·6	33 49 27·552	20 0 59·648
Robertson ...	- 6453·100 + 12727·787	709·6	33 48 53·869	19 55 57·628
Willem Nels Rivier	- 4100·712 + 11210·349	3115·5	33 45 48·385	19 50 11·685
*Sarahs Rivier ...	- 12226·361 + 13731·000	4561·7	33 50 54·270	20 10 6·464
Waterhoek ...	- 9361·613 + 10977·632	4601·3	33 45 18·129	20 3 3·953
*Dassies Hoek ...	- 5227·526 + 10033·429	5575·0	33 43 23·800	19 52 56·765
Klipkuil ...	- 15431·030 + 13796·630	1756·1	33 51 0·163	20 17 57·483
Montagu ...	- 13792·926 + 12117·727	2272·1	33 47 35·448	20 13 55·393
*Leeuw Riviers Berg	- 16042·575 + 16716·952	5341·5	33 56 57·794	20 19 30·098
Kleinberg ...	- 17861·804 + 12299·358	3657·1	33 47 54·594	20 23 53·159
Heintjes Vlakte ...	- 15607·753 + 9771·260	3750·0	33 42 46·412	20 18 19·805
Zandleegte ...	- 12805·461 + 9308·862	3931·6	33 41 51·637	20 11 28·279
Patatasfontein ...	- 8919·554 + 6616·947	4464·4	33 36 23·560	20 1 56·807
Keisiesberg ...	- 7580·469 + 8581·793	3483·1	33 40 25·051	19 58 41·421
Moedverloren ...	- 7109·747 + 6803·818	4701·7	33 36 47·176	19 57 31·653
Eendracht ...	- 4923·050 + 6894·199	4390·3	33 36 58·895	19 52 11·190
Leeuwboschfontein	- 7434·670 + 5187·132	4656·5	33 33 28·799	19 58 18·583
Nauga ...	- 10088·647 + 4374·725	4202·8	33 31 48·050	20 4 46·837
Nietvoorbij ...	- 12255·573 + 6136·567	4513·5	33 35 22·946	20 10 5·363
*Wagenboom's Berg	- 14610·657 + 7204·102	4684·1	33 37 32·333	20 15 51·332
Bijls Hoek ...	- 16759·440 + 8611·292	3794·7	33 40 23·267	20 21 7·665

* Stations of Captain Bailey's Trigonometrical Survey.

Division of Bredasdorp.

	y	x		
Zwartberg ...	0·0	0·0	3568·2	34 11 26" 587
Struys Bay ...	- 13461·339 + 16070·044	119·4	19 29 46" 057	34 44 12·537
Struys Point ...	- 16833·313 + 13989·237	172·0	20 3 5·319	34 39 54·844
Varkens Vlei ...	- 12843·113 + 13195·497	41·2	20 11 23·989	34 38 20·498
Bredasdorp ...	- 12954·711 + 10500·017	1200·0	20 1 31·267	34 32 49·928
Zanddrift ...	- 10708·051 + 7947·588	551·1	20 1 45·709	34 27 38·290
Zout Kloof ...	- 11687·322 + 5369·693	836·6	19 56 11·152	34 22 21·652
Klipbank ...	- 14283·770 + 2345·448	925·0	19 58 34·303	34 16 9·153
Rondeheuvel ...	- 13523·566 + 272·341	1035·1	20 4 55·663	34 11 55·478
Leeuwkop ...	- 17072·006 + 848·913	1098·8	20 3 1·722	34 13 3·499
Zout Rivier ...	- 15150·486 + 3918·627	715·0	20 11 45·933	34 19 21·420
*Kars Rivier ...	- 15111·753 + 7612·994	694·9	20 7 5·089	34 26 54·429
Rhenosterfontein ...	- 16616·733 + 9863·606	539·7	20 7 2·708	34 31 29·189
Baatjes Kraal ...	- 17089·613 + 5736·867	464·4	20 10 47·703	34 23 2·809
Van der Stels Kraal	- 19487·542 + 7536·666	593·6	20 11 53·516	34 26 41·303
Goerreesoe ...	- 18879·593 + 2854·030	1051·0	20 17 50·246	34 17 7·749
Grauwkop ...	- 20883·175 + 379·942	847·8	20 16 14·968	34 12 2·429
Apolliskop ...	- 24121·125 + 702·116	512·6	20 21 7·867	34 12 38·337
Steynskop ...	- 21825·096 + 3786·571	987·3	20 29 6·137	34 18 59·121
Cupido's Kraal	- 22556·795 + 6675·660	709·2	20 23 31·287	34 24 52·529
*Potteberg ...	- 26013·051 + 5433·403	2006·0	20 25 23·312	34 22 16·062
De Hoop ...	- 24725·394 + 8235·734	277·0	20 30 46·446	34 28 1·253
Martha Point ...	- 20915·401 + 10868·806	137·4	20 21 25·759	34 33 28·404
Hamerkop ...	- 28802·044 + 6717·958	1486·6	20 40 47·285	34 24 49·748

* Stations of Captain Bailey's Trigonometrical Survey.

† Results of Col. Morris's Geodetic Survey.

Divisions of Swellendam, Riversdale and Bredasdorp.

APPENDIX. I.—Spheroidal Rectangular Co-ordinates, Latitudes, Longitudes and Heights above Mean Sea Level of Stations.

Stations.	Spheroidal Rectangular Co-ordinates (Cape Roods)		Height of Base of Beacon above M.S.L. (English feet).	Latitude.	Longitude.
	<i>y</i>	<i>x</i>		° /' /"	° /' /"
*Zuurbrak ...	... 0·000	0·000	4947·8	33 57 41·835	20 38 42·491†
Riethuis ...	+ 906·947	- 3393·761	2999·2	33 59 45·634	20 36 29·206
Barrydale ...	- 2629·268	- 2940·195	2484·1	33 51 41·108	20 45 8·957
Tradouw ...	- 3263·076	- 397·897	4478·4	33 56 52·781	20 46 42·604
Groote Vlei ...	- 3504·238	+ 2751·140	1290·0	34 3 18·903	20 47 18·735
Riet Kuil ...	- 557·078	+ 3433·473	1063·1	34 4 42·870	20 40 4·582
Kinko ...	+ 1700·175	+ 4212·342	574·9	34 6 18·317	20 34 31·875
Goedgedlooef ...	+ 5101·016	- 113·481	5610·4	33 57 27·283	20 26 11·869
Weegschaal ...	+ 5408·928	+ 4681·070	659·2	34 7 15·148	20 25 25·033
Voorhuis ...	+ 7519·418	+ 2696·228	653·6	34 3 11·084	20 20 14·759
*Leeuw Rivier's Berg	+ 7832·088	- 346·923	5341·5	33 56 57·794	20 19 30·098
Kalkoens Hoek ...	+ 3930·496	- 4504·457	3397·1	33 48 29·071	20 29 5·121
Klipkuil ...	+ 8471·347	- 3261·210	1756·1	33 51 0·163	20 12 57·483
Kleinberg ...	+ 6054·877	- 4781·401	3657·1	33 47 54·594	20 18 53·159
Rheboksfontein ...	+ 2729·771	- 1874·669	2606·4	33 53 51·762	20 32 1·083
Nooitgedacht ...	+ 11209·772	- 513·637	1070·1	33 56 35·779	20 11 13·230
Horeesdrift ...	+ 9640·977	+ 2586·071	638·1	34 2 56·684	20 15 2·283
Stormsvliei... ...	+ 12584·158	+ 3053·707	1500·2	34 3 52·423	20 7 48·385
Rondeheuvel ...	+ 14506·838	+ 7003·594	1035·1	34 11 55·479	20 3 1·721
Leeuwkop ...	+ 10952·122	+ 7540·113	1098·8	34 13 3·499	20 11 45·933
*Luipards Berg ...	+ 8277·755	+ 4986·941	1254·9	34 7 51·690	20 18 21·925
Geerreesoe... ...	+ 9122·020	+ 9524·621	1051·0	34 17 7·749	20 16 14·968
Grauwkop ...	+ 7146·483	+ 7028·224	847·8	34 12 2·429	20 21 7·867
Steynskop ...	+ 6166·167	+ 10423·758	987·3	34 18 59·121	20 23 31·287
*Potteberg ...	+ 1959·850	+ 12022·937	2006·0	34 22 16·062	20 33 52·692†
Apolliskop ...	+ 3905·107	+ 7313·846	512·6	34 12 38·337	20 29 6·137
Holgatzitkop ...	- 194·854	+ 9132·328	627·3	34 16 21·702	20 39 11·271
Zandkraal ...	+ 1862·666	+ 5550·997	578·2	34 9 2·457	20 34 7·775
Verrekykerskop ...	- 1844·729	+ 7771·526	897·9	34 13 34·752	20 43 14·804
Goedverwachting...	- 1910·607	+ 4857·243	1051·0	34 7 37·380	20 43 24·199
*Groote Rug I. ...	- 6542·587	+ 6226·941	654·2	34 10 24·377	20 54 47·657
Liliendal ...	- 4412·773	+ 7110·124	620·7	34 12 13·251	20 49 33·717
Heidelberg ...	- 6813·159	+ 2677·723	1182·2	34 3 9·063	20 55 26·173
Koega ...	- 9338·186	+ 5100·633	662·2	34 8 5·172	21 1 39·481
Kruis Rivier ...	- 9580·777	+ 1429·731	2416·4	34 0 34·915	21 2 13·178
Swellendam ...	+ 4667·377	+ 2364·246	649·1	34 2 31·233	20 27 16·295
Buffeljachts Rivier	+ 1998·142	+ 1484·330	626·6	34 0 43·760	20 33 48·274
Limoenshoek ...	- 5646·698	- 1263·901	5372·2	33 55 6·064	20 52 33·029
Koerannij ...	+ 692·566	+ 5484·639	839·3	34 8 54·394	20 37 0·350
Diptka ...	- 501·574	+ 5330·089	737·8	34 8 35·448	20 39 56·459
Kweek Kraal ...	- 11668·143	+ 4177·635	1082·5	34 6 10·787	21 7 22·411
Vette Rivier ...	- 12397·342	+ 1653·361	1946·6	34 1 0·822	21 9 8·051
Riversdale ...	- 14741·511	+ 4565·604	814·4	34 6 56·366	21 14 55·763
Garcia's Pass ...	- 15130·722	+ 388·933	4518·0	33 58 23·932	21 15 49·419
Kaffir Kuils Rivier	- 18796·045	+ 3048·291	1262·8	34 3 46·977	21 24 51·800
*Langeberg ...	- 19427·983	- 257·552	5006·2†	33 57 1·031	21 26 21·125†
De Hoop ...	+ 3215·661	+ 14839·371	277·0	34 28 1·253	20 30 46·446
Hamerkop ...	- 843·513	+ 13275·646	1486·6	34 24 49·748	20 40 47·285
*Cape Infanta ...	- 4269·587	+ 13920·160	793·0	34 26 8·343	20 49 14·322
Slange Rivier ...	- 3168·361	+ 10124·562	329·0	34 18 23·126	20 46 30·639
Wolfkop ...	- 2731·566	+ 7728·852	856·9	34 13 29·419	20 44 25·710
Duine Rug ...	- 6994·644	+ 10090·779	738·8	34 18 18·020	20 55 55·983
Dassenklip ...	- 9315·860	+ 8180·917	506·2	34 14 22·894	21 1 37·891
Zwartheuvel ...	- 13110·184	+ 7199·359	533·5	34 12 20·435	21 10 57·314
Honingfontein ...	- 15373·591	+ 7778·558	718·2	34 13 29·865	21 16 31·872
Zwartklip ...	- 18393·726	+ 7209·674	830·2	34 12 17·595	21 23 57·055
Karnemelks Vlei...	- 20378·051	+ 5268·689	867·8	34 8 17·708	21 28 47·547
Valsch Rivier ...	- 21974·615	+ 2758·788	919·1	34 3 8·300	21 32 39·717
Onverwacht ...	- 24578·305	+ 3800·172	737·1	34 5 13·011	21 39 4·769
Witte Els Berg ...	- 22539·165	- 345·727	3825·1	33 56 47·030	21 33 58·768
Albertinia ...	- 22645·767	+ 7950·811	1175·9	34 13 44·161	21 34 25·540
*Aasvogel Berg ...	- 25092·237	+ 7433·131	1611·0	34 12 37·808	21 40 25·902
Honingklip ...	- 25621·696	+ 11214·273	1069·7	34 20 20·724	21 41 49·811
Rietvlei ...	- 21748·422	+ 10863·155	660·6	34 19 42·223	21 32 16·851
Droogevlakte ...	- 18156·297	+ 9465·800	660·0	34 16 54·441	21 23 24·452
*Platte Kap...	- 17363·007	+ 4643·491	...	34 7 3·848	21 21 22·306
Franzekraal ...	...	...	955·5	...	...
*Tromps Kop ...	...	...	950·9	...	...

* Stations of Captain Bailey's Trigonometrical Survey.

† Results of Col. Morris's Geodetic Survey.

Division of East Griqualand.

APPENDIX II.—Spheroidal Rectangular Co-ordinates, Latitudes, Longitudes and Heights above Mean Sea Level of Stations.

Stations.	Spheroidal Rectangular Co-ordinates (Cape Roods).		Height of base of Beacon above M.S.L. (English feet).	Latitude.	Longitude.
	<i>y</i>	<i>x</i>			
Lady Kok ...	0·000	0·000	6612·8*	30° 46' 8·269	28° 46' 39·377*
Ingeli ...	-20524·299	-4387·865	7442·1*	30° 37' 0·850	29° 35' 10·816*
Mount Currie ...	-16304·819	-8641·862	7296·4*	30° 28' 22·268	29° 25' 8·850*
Mount Emma ...	-20843·148	-9335·890	6537·4	30° 26' 53·518	29° 35' 50·941
Inquiqu ...	-19555·084	-11523·496	6649·3	30° 22' 26·234	29° 32' 46·443
Bultfontein ...	-24173·189	-12510·134	4289·2	30° 20' 20·892	29° 43' 38·713
Malowe ...	-27839·915	-13433·019	4888·8*	30° 18' 23·619	29° 52' 16·089
Mountain Home ...	-26468·521	-15430·217	5361·8	30° 14' 20·179	29° 48' 59·596
Gungini ...	-22241·608	-13757·454	5097·0	30° 17' 49·767	29° 39' 4·141
Umyembe ...	-24810·203	-17834·337	5447·6	30° 9' 27·027	29° 45' 2·372
Sneezewood ...	-20850·422	-15774·214	5748·0	30° 13' 43·602	29° 35' 45·394
Gwangwane ...	-23007·967	-21443·336	5313·7	30° 2' 6·055	29° 40' 43·903
Insikeni ...	-18294·223	-18304·934	7266·3	30° 8' 35·214	29° 29' 41·981
Impru ...	-18764·816	-13567·633	6645·5	30° 18' 16·081	29° 30' 52·743
Pramberg ...	-14985·157	-12959·395	6782·4	30° 19' 33·416	29° 21' 58·752
Zembeni ...	-15829·120	-15278·507	6507·5	30° 14' 48·320	29° 23' 56·319
Zwartberg ...	-16248·451	-18948·963	7615·3*	30° 7' 17·683	29° 24' 52·677*
Fishback ...	-13009·940	-16886·096	5902·0	30° 11' 32·792	29° 17' 16·905
Bokberg ...	-13004·944	-12136·816	7096·3	30° 21' 15·521	29° 17' 19·216
Sihlesa ...	-23758·196	-8201·224	...	30° 29' 9·946	29° 42' 45·048
Diamondhill ...	-19367·226	-6107·728	5781·0	30° 33' 30·839	29° 32' 25·034
Beestekraal ...	-21833·551	-6000·618	6397·0	30° 33' 41·802	29° 38' 14·783
Eastlands ...	-25680·837	-7263·903	4003·4	30° 31' 2·904	29° 47' 18·592
Ibisi ...	-26964·554	-9094·735	3551·2	30° 27' 16·856	29° 50' 18·059
Gugweni ...	-29905·112	-7595·109	2903·8	30° 30' 17·248	29° 57' 16·680
Kromhoek ...	-30771·479	-11897·870	3261·4	30° 21' 28·295	29° 59' 12·912

* Results of Col. Morris's Geodetic Survey.

Divisions of Malmesbury, Piquetberg, Clanwilliam and Ceres.

APPENDIX III.—Plane Co-ordinates of Stations.

Stations.	Plane Co-ordinates. (Cape Roods).		Stations.	Plane Co-ordinates. (Cape Roods).	
	<i>y</i>	<i>x</i>		<i>y</i>	<i>x</i>
*Heerenlogementsberg	0·00	0·00	Zoutfontein ...	-4248·39	+38109·30
Honingberg ...	-8055·89	+34482·60	Kanonberg ...	-2541·35	+41566·43
Schoenmakersfontein	-8608·22	+38065·85	Moorreesberg ...	-2285·02	+35744·99
Ontongskop ...	-12514·99	+40572·72	*East end of Base	+1636·37	+37062·34
*Riebeeks Kasteel ...	-6390·53	+40477·97	*Capocberg ...	+4368·09	+42530·04
Groen ...	-14168·03	+30772·41	*West end of Base	+4910·82	+38161·94
Olifantskop ...	-7564·22	+27590·11	Thee Fontein ...	+5727·13	+35131·49
Piekenierskloof ...	-9790·91	+19965·03	Waterboschkraal	+4145·43	+30853·12
Charl ...	-15106·72	+25207·79	Groot Zwartberg	+8718·08	+36628·43
Zebrakop ...	-4840·07	+22559·35	Nelskop ...	+1717·28	+33806·68
Inkruip ...	-15636·73	+36333·29	Baronskop ...	+1938·57	+36073·48
Grasruggens ...	-11615·28	+26397·11	Pampoenkraal	+472·03	+30285·16
Oskop ...	-7763·67	+25105·41	Hamburg ...	+3111·15	+34179·05
Aasvogelskop ...	-4043·25	+27780·75	Roodekleigat ...	+264·37	+39441·33
Wilgenhoutsdrift ...	-4316·26	+20739·02	Rheboksfontein	-2246·93	+24778·53
Matjes Rivier ...	-6269·81	+31345·44	Porterville ...	-11755·15	+30125·90
Jakhalskloof ...	-8314·81	+31618·34	Saronsberg ...	-12346·64	+36527·83
Grootvlei ...	+8923·73	+33303·83	*Winterhoeksberg	-14107·73	+33393·31
*Zwartberg ...	-2558·65	+31833·75			

* Stations of Sir Thomas Maclear's Geodetic Survey.

APPENDIX IV.—SUMMARY of transactions under the various Land Laws
during the Year 1908.

Note.—From the subjoined summary it will be seen that, if to the Capital sum realized by Crown Land Sales during the year be added the Quitrents capitalized at 20 years purchase, a total capitalized sum of £95,152·61 is derived. Land Sales realizing £52,593·21, Annual Quitrents and Lease Rents accruing amount to £2,127·97 and £1,719·14 respectively.

			Annual Rent.	Capitalized Amounts.
LAND SALES.				
Act 15 of 1887, Section II	...	...	...	£ 31,773
" VI	...	...	...	45·5
" VII (a)	...	...	22	...
" XII	...	...	5·4	173
" XIII	...	...	...	2,507
" XIV	...	...	...	3,012·5
Town or Village Lots	...	...	...	3,036·75
Act 26 of 1891, Section VI	...	...	...	750
Act 40 of 1895, Section VII	...	...	...	4,180·85
*Act 23 of 1893 (First Railway Land Grant Farms)	...	...	...	6,607·61
Act 41 of 1902 (Outspans)	...	...	...	507
Total	...	...	27·4	52,593·21
QUITRENTS.				
Act 37 of 1882, Section XVIII	...	...	28·35	...
Act 25 of 1894 (Glen Grey) and Proclamation No. 227 of 1898	...	...	2,059·25	...
Act 19 of 1907 (sale of sub-divided commonage)	...	...	12·97	...
Total	...	...	2,127·97	42,559·4
LEASE RENTS.				
Licences Act 37 of 1882	...	...	1·52	...
Base Mineral Leases	...	...	308·62	...
Act 26 of 1891, Section IV, re-enacted by Act No. 18 of 1897	...	...	986	...
Act 26 of 1891, Section VI	...	...	143	...
Dredging Leases (Precious Stones) Act 27 of 1907 Part III	...	...	280	...
Total	...	...	1,719·14	...
Grand Total	...	...	£3,847·11	£95,152·61

* NOTE.—One-third of this amount is payable to the Rhodesia Railways Limited.

APPENDIX V.—SUMMARY of Transactions under Land Laws 1904–1908.

Summary for 5 Years.	Titles Issued.	Extent of Land Alienated.			Purchase Amount.	Annual Quitrent.		
<i>Sales and Alienations under Land Laws:</i>								
Calendar Year	No.	Morgen.	Roods.	Feet.	£ s. d.	£ s. d.		
1904	1,336	363,956	147	78	33,394 6 10	1,659 7 10		
1905	2,511	286,855	62	15	25,655 17 11	2,055 14 8		
1906	3,422	238,939	377	37	20,635 14 11	3,133 16 6		
1907	4,682	476,296	438	10	44,621 0 3	4,056 7 3		
1908	2,859	336,579	34	40	26,938 3 11	2,523 19 8		
<i>Titles Issued after Amendment:</i>								
Calendar Year								
1904	46	83,104	431	8	...	85 15 3		
1905	63	70,046	548	53	...	151 16 8		
1906	37	104,290	258	7	...	61 10 1		
1907	35	64,324	85	19	...	55 6 4		
1908	67	136,517	241	104	...	144 6 11		
<i>Freehold Grants Issued:</i>								
Calendar Year								
1904	93	1,241	485	141	...	...
1905	144	680	191	23	...	...
1906	73	679	41	136	...	...
1907	118	62,165	525	24	...	...
1908	184	189,913	47	84	...	...
GRAND TOTALS :								
Calendar Year								
1904	1,475	448,302	464	83	33,394 1 10	1,745 3 1		
1905	2,718	357,582	201	91	25,655 17 11	2,207 11 4		
1906	3,532	343,909	77	36	20,635 14 11	3,195 6 7		
1907	4,835	602,736	448	53	44,621 0 3	4,111 13 7		
1908	3,110	663,009	323	84	26,938 3 11	2,681 6 7		

APPENDIX VI.—ESTIMATED AREA of the Colony showing the extent Disposed of and Undisposed of on 31st December, 1908.

As no general survey of the Colony has been made it is impossible to state exactly the area undisposed of. From the latest calculations that have been made the following estimate is derived :	Extent Expressed in	
	Morgen.**	Acres.
The Total Area of the Colony including all the Territories annexed to it is estimated at	83,805,012*	177,376,660
Deduct Total Extent of land disposed of up to 31st December, 1908, about	63,861,906	135,166,278
Area, undisposed of, appears to be, on 31st December, 1908	19,943,106	42,210,382

Note.—*This area includes some Loan Places still unconverted, Missionary Institutions, Native Reserves and Locations, Outspans, Commonages and Crown Lands held under Licence in terms of Act 40 of 1905. This area is further exclusive of that part of the Railway Land Grant in British Bechuanaland which was undisposed of on 31st December, 1908, of about 933,875 morgen or 1,976,583 acres.

**One morgen=2·1165402 acres.

APPENDIX VII.—LANDS Resumed by Government during 1908.

Cape Division	...	2 Lots	10 morgen	304 sq. rds.	10 sq. ft.	Under Act 40 of 1895, Section 21.
Gordonia Division	...	2 Lots	29,993	,,	226	Under Act 3 of 1879, Section 1.
George Division	...	1 Lot		247	,,	Under Act 3 of 1879, Section 1.
King William's Town	2 Lots	6	,,	60	,,	Under Act 3 of 1879, Section 1.
Total	...	7 Lots	30,010	,,	237	,,

APPENDIX VIII.—Part I. Return of all Mines and Diggings of Precious Stones and Precious Minerals; (A) on Crown Lands, and (B) on Private Property, (i) subject to Mineral Reservations and (ii) not so subject; or (iii) proclaimed with consent of owner.

Name and Situation of Mines and Diggings.	Under what Proclamation.		Revenue.		Revenue : 1907, £3,952·40 ; 1908, £3,126·12.
	Proclaimed.	Abandoned.	1907.	1908.	
CLASS (A) Diamond Mines and Diggings on Crown Lands.					
Borell's Prospect on Farms H.V. 44 and 45	No. 166	Date. 3.10.83	No. 259	Date. 28.11.84	£ Nil 50
Washington Mine on Farm H.V. 46 ...	... 27	13.2.89	226	17.8.91	Nil
Russel Mine on Barkly Commonage ...	... 57	10.3.90	292	21.10.91	(a) Whole mine leased to Wm. Dalgetty Young on 17th Feb., 1905. Expired Nov., 1908.
Welsh's Prospect Diggings on Farm H.V. 10	... 23	27.1.87	Still open	27.4	(a) Whole mine leased to D. C. Evans from 13.8.06 for two years.
Hebron on Farm H.V. 10 ...	... 34	28.11.71	Still open	... 912.1	(a) Extended to all Alluvial Deposits on Windsor Commonage by Proc. 237 of 1887.
Klipdrift on North Bank of Vaal River	... 39	10.1.72	d.o.	579.95	Surveyed. Extended by Proc. 177 of 15.4.07.
Forlorn Hope on Farm H.V. 47	... 34	28.11.71	d.o.	119.45	(a) Area extended by Proc. 182 of 4.5.08.
Longlands Rush on Farms H.V. 46 and 47 ...	... 35	8.12.71	d.o.	608.96	(a) Surveyed as extended by Proc. 35 of 8.12.71. Area extended by Proc. 182 of 1908.
Esterhuizen's Rush on Farm H.V. 47	... 34	28.11.71	d.o.	13.25	(a) Area extended by Proc. 182 of 1908.
Winter's Rush on Farm H.V. 46	... d.o.	d.o.	d.o.	496.05	(a) Area extended by Proc. 182 of 1908.
Delpoort's Hope on Farm H.V. 45 ...	... d.o.	d.o.	d.o.	501.82	(a) Small piece of ground on these Diggings forms portion of grant to A. Selzer, who receives $\frac{1}{2}$ of licence fees collected. Extended by Proc. 182 of 1908.
Jonas Kopje on Farm H.V. 12 ...	... 131	13.8.85	d.o.	29.25	(a) Surveyed as extended by Proc. 327 of 11.11.98.
Herbert Division.					
Plaardrift Diggings on Farm R. 25	... 287	23.8.06	d.o.	542	88·50
Schmidt's Drift Proper on Farms R. 26 and R. 27 and N.W. 1, 2 and 3.	... 261	25.5.07	d.o.	121.42	25·55
Brypaaal on Douglas Commonage ...	... 433	29.8.07	d.o.	0·75	(a) (See also Class II. ^r private property included in Digging.)
				199·50	(a)

CLASS B (i) Diamond Mines and Diggings on property the Title to which contains a Reservation of Precious Stones to the Crown.
Revenue : 1907, £11,447·58 ; 1908, £12,356·56.

Barkly West Division.							
Victoria Mine on Farms H.V. 49 and 50	... 172	13.10.81	4	4.1.84	54	27	(b) Owner entitled to half. Leased to G. St. John Cottrill on 8.9.06. Expired Sept., 08.
Newlands No. 1 Mine ...	... 191	17.11.81	19	24.1.84	240	240	(b) Owner entitled to $\frac{1}{2}$. Leased to Newlands Syndicate, Ltd., 8.06. ditto.
Newlands No. 2 Mine on Farm H.V. 42	... 58	6.4.82	37	25.2.89	240	248·01	(b) Ditto.
Wrigley's Mine on Farm H.V. 9 ...	... 55	12.4.83	248	23.10.84	12·13	40	(b) Leased to W. Haddock on 6.1.05, expired in April, '08.

CLASS B (i).—(Continued.)

Name and Situation of Mines and Diggings.	Under what Proclamation.		Revenue.		Particulars as to Present Lessee, Apportionment of Revenue, &c.
	Proclaimed.	Abandoned.	1907.	1908.	
<i>Barkly West Division.—(Continued.)</i>					
Leicester Mine on Farm H.V. 8	... 180	Date. 30.4.95	No. 224	Date. 30.8.99	£ 672
Otto's Prospect Mine on Farm H.V. 54	... 202	28.5.97	Still open	1,032	672 (b) Leased Elands Drift Diamond Estates, Limited.
Smith's Prospect Mine on Farm H.V. 37	... 203	28.5.97	d.o.	2,875·50	946 (b)
Balmoral Mine on Farm H.V. 9	... 96	4.6.02	143	23.3.07	2,743·75 (b)
Good Hope Diggings on Farm H.V. 50	... 34	28.11.71	Still open	242	660 (b) Includes Lease Rent. Leased to H. C. Clarke on 30.4.07. (b) Extended by Proc. 220 of '08.
Bad Hope on Farms H.V. 49 and H.V. 50	... d.o.	d.o.	69	88·50	359·82 (b) Ditto.
Surveyed Gong Gong on Farm H.V. 48	... 297	3.12.90	26.2.04	13.25	37·55 (b) Extended by Proclamation 228 of 2.12.87. Leased to T. J. Anderson.
Old Gong Gong on Farm H.V. 48	... 34	28.11.71	Still open	794·05	288 (b) Surveyed. Extended by Proc. 197 of 14.5.95.
Central Gong Gong on Farm H.V. 48	... 54	24.4.86	d.o.	53·05	854·15 (b) Ditto.
Union Kopje on Farm H.V. 48	... 84	5.5.88	d.o.	49·70	52·25 (b) Extended by Proc. 59 of 25.3.87 and Proc. 304 of 29.8.06.
Keiskamma North on Farm H.V. 48	... 182	13.8.90	d.o.	47·25	9·75 (b) Ditto.
Jacob's Prospect on Farm H.V. 9	... 356	31.10.92	d.o.	33·50	39·50 (b) Extended.
Holpan No. 1 on Farm H.V. 82	... 194	26.10.88	d.o.	33·25	13·50 (b) Ditto.
Holpan No. 2 on Farm H.V. 82	... 193	26.10.88	d.o.	102·50	78 (b) Ditto.
Holpan No. 3 on Farm H.V. 82	... 193	26.10.88	d.o.	445·25	349·50 (b) Defined by Proc. 29 of 7.1.07.
Klipdam on Farm H.V. 81	... 193	26.10.88	d.o.	221·25	63 (b) Certain portion eliminated by Proc. 323 of 7.8.95, 115 of 31.3.96, and 204 of 15.6.96. Alluvial Area extended by Proc. 371 of 11.12.03.
Van Zoelen's Laagte on Farm H.V. 9	... 259	29.6.08	d.o.	... 533·37 (b)	... 103·75 (b)
Mayer's Prospect on Farm H.V. 5	... 397	10.9.08	d.o.	... 103·75 (b)	... 103·75 (b)
Williamston on Farm H.V. 4	... 478	16.10.08	d.o.	16·75	305·75 (b)
Ricketts Prospect on Farm H.V. 89	... 303	2.11.91	d.o.	466	108 (b) Surveyed.
Snyders Rush on Farm H.V. 7	... 206	5.7.92	d.o.	466	384 (b) Certain portions eliminated by Proc. 367 of 4.12.03.
Scholtz Prospect on Farm H.V. 8	... 24	18.1.93	d.o.	77·50	15·25 (b) Surveyed.
Ward Hope on Farm H.V. 11	... 162	17.5.92	d.o.	8	7·75 (b) Ditto.
Brady's Prospect on Farm N.W. 20	... 84	6.3.03	d.o.	3·25	2 (b)
Ver van hien on Farm N.W. 9	... 253	21.5.07	d.o.	40	56·75 (b)
Viljoen's Rush on Farm H.V. 7	... 268	30.5.07	d.o.	121	6·75 (b)
Rocklands on Farm H.V. 83	... 308	21.6.07	d.o.	441·75	894·50 (b) Extended by Government Notice 947 of 26.8.07.
Harrisdale on Farm H.V. 6	... 112	20.7.82	167	3.10.83	255·21 (b) Includes Lease Rent and Royalty. Sivonellis was re-claimed an Alluvial Digging by Proc. 287 of 12.6.07, with exception of area leased to D. Bergman.
<i>Herbert Division.</i>					
Sivonellis or Sihnnel on Farm R. 24 ...	... 81	14.2.95	358	19.10.96	Nil (b) Extended by Proc. 196 of 14.5.95.
Atherton on Farm R. 15	... 306	31.7.95	359	19.10.96	Nil (b)
© Faber's Puts on Farm R. 19	... 261	25.5.07	Still open	60·50	·50 (b) (See also Class I. re remainder of Digging on Crown Land.)

[G. 30.—1909.]

CLASS B (i).—(Continued).

Name and Situation of Mines and Diggings.	Under what Proclamation.			Revenue.			Particulars as to Present Lessee, Apportionment of Revenue, &c.
	Proclaimed.	Abandoned.	1907.	1908.	£	£	
<i>Hay Division.</i>							
Peiser Diamond Mine on Farm M. 57	163	27.5.04	Still open	1,776	1,776	One-fourth Revenue to Government.
<i>Kuruman Division.</i>							
Mahura Muthla	524	26.11.08	d.o.	... ...	72.50 (b)

CLASS B (ii) Diamond Mines and Diggings on property the Title to which contains no Reservation of Precious Stones, etc., to the Crown.
Revenue : 1907, £1,442.20 ; 1908, 739.47.

<i>Barkly West Division.</i>	Under what Proclamation.			Revenue.			Abandoned and reverted to owner. Ditto. Ditto. (b) Surveyed. Defined by Proc. 93 of 29.6.82. (b) Surveyed. Keiskanna South is merely extension of Waldeck's Plant.
	Proclaimed.	Abandoned.	1907.	1908.	£	£	
<i>P'niel on P'niel Estate.</i>							
Webster's Kopje on P'niel Estate	33	28.11.71	243	17.12.87	Nil
Cawood's Hope on P'niel Estate	d.o.	53	17.2.96	do.	Nil do.
Blue Jacket or Niekerk's Rush on Farm Than	d.o.	d.o.	Still open	173.85	141.75
Waldeck's Plant (including Keiskanna South) on P'niel Estate.	d.o.	53	4.9.72	1,268.35	597.72

CLASS B (iii) Diamond Alluvial Diggings on private property proclaimed with consent of owner. Revenue : 1907, £289 ; 1908, £218.

<i>Kimberley Division.</i>	Under what Proclamation.			Revenue.			Abandoned and reverted to owner. Ditto. Ditto. (b) Surveyed. Extended by Proc. 51 of 10.3.87. (b) Surveyed.
	Proclaimed.	Abandoned.	1907.	1908.	£	£	
<i>Spence's Kopje Liversides.</i>							
Spence's Kopje	129	30.7.86	13	8.1.95	Nil
Wesburg or Robinson's Kopje on Farm K. 120	d.o.	d.o.	Still open	58.75	Nil do.
Robinson's Kopje No. 1	89	13.5.87	d.o.	230.25	71.50
						146.50	(b) Surveyed.

NOTES.—(a) Whole Revenue to Government.
N.B.—The areas comprising the majority of the Alluvial Diggings are more fully described and defined in Proclamations 319 and 421 of 1905.
Proclamation 471 of 1907, reduced the Claim Licences on all Alluvial Diggings on Crown Land and Private property (within meaning of the Act 11/99) from 10s. to 5s. per claim.

APPENDIX VIII.—PART II. Return of Revenue received from Diamond Mines in the Division of Kimberley, for the Year 1908.

Name and Description of Property, by whom Leased, &c.	Extent.	Rental per Acre p.a.	Revenue in 1908.
	m. sq. rds.	sq. ft.	£
Central Diamond Co. Mine, Kimberley Floor (a) ... ... ...	... ...	... ...	200
" " " (a) ... ... ...	... ...	... ...	199·6
Coolie Location (a) ... ... ... ...	... ...	... ...	279·3
Brick-fields, Portion of Vooruitzigt Estate, about 2 miles from Kimberley (a)	34	541 0	3 221·62
Lease Lot near Mostert's, Portions of Vooruitzigt Estate (a) { 0	14 349	0 17	3 95·07
Land between Transvaal Road and Kenilworth (a)	69	521 0	3 443·64 (b)
(1) Between Transvaal Road and De Beers Mining Area (a) ... ...	... ...	... ...	86·05 (c)
(2) Near De Beers Workshops, Transvaal Road (a) ... ...	... ...	... ...	89·64
(3) " " " (a) ... ...	... ...	... ...	781·83 (b)
(4) In Hull Street (a) " " (a) ... ...	... ...	... ...	377·64
Kimberley Mine Floor (a) ... ... ...	... ...	... ...	9·93
" " " (a) ... ... ...	... ...	... ...	8·99
" " " (a) ... ... ...	... ...	... ...	89·64
" " " (a) ... ... ...	... ...	... ...	781·83 (b)
" " " (a) ... ... ...	... ...	... ...	377·64
Near Gladstone Cemetery New, known as Lot W.G.C.L. (a) 0	310	132·6	3 3·29
Off De Beers Road (being Lot A.R.S.) (a)	0	84 31	3 89
In Transvaal " (" " Mc.H.) (a)	0	68 118	3 73
In " (" " 5 t.v.a.) (a)	0	5 127	3 06
In De Beers Road, two pieces of land (a)	0	97 219	3 1·04
Lot M.P.S. in District 1, Kimberley (a) ... ... ...	... ...	... ...	225·75 (b)
Land situate in De Beers Road (a) ... ... ...	... ...	... ...	·33 (b)
Gway's Location in Transvaal Road (a) ... ... ...	... ...	... ...	214·98 (b)
De Beers Mine (Floor Rent) (a) ... ... ...	... ...	... ...	2,029·7
Kimberley Mine (Floor Rent) (a) ... ... ...	... ...	... ...	928·2
Otto's Mine leased by Otto's Do., further portion Kopje Diamond	... ...	... ...	144
Otto's Kopje Mine, Depositing Floors Mines, Limited.	... ...	... ...	144
Taylor's Kopje Mine, leased by S. L. Fineburg	... ...	... ...	245
De Beers Mine, held by De Beers Co. ... ... ...	... ...	... ...	24·06 (d)
Kimberley Mine, " " " " ... ...	... ...	... ...	3,726·22 (f)
Kimberley and De Beers Expansions, held by De Beers Co.	... ...	... ...	2,810·54 (f)
			4,310·68 (g)
Total Revenue received in 1908...	...	...	£17,602·78 (e)

NOTES.—(a) Leased by De Beers.
 (b) The whole of the Revenue was refunded to Borough Council.
 (c) Of this Revenue £57·47 " " " "
 (d) £·06 of this is royalty.
 (e) Of this gross Total Revenue, £1,723·99 was refunded to Boro.
 (f) Licences commuted to Quitrent. (g) Royalties.

APPENDIX VIII.—PART III. Return of Gold Reef and Alluvial Diggings (*A*) situate on Crown Lands; (*B*) situate on property with reservation of Precious Minerals in favour of the Crown.

(A) GOLD REEF AND DIGGINGS ON CROWN LAND.

MILLWOOD GOLDFIELDS, in Knysna Division.—Proclaimed under Proc. 4 of 6th January, 1887; Portion proclaimed abandoned by Proc. 250 of 22nd January, 1902. This portion was leased, and on termination of lease was reproclaimed by Proc. 330 of 4th September, 1906. N.B.—These Gold Fields include Lots M. and N., which are private property, and the owners of which receive the whole of the revenue from reef claims, and half the revenue from alluvial claims. During 1908 the amount accruing to the owners was £1 5s. for reef claims.

MADIBI GOLD FIELDS, in the Molopo Native Reserve, Mafeking Division.—Proclaimed by Proclamation 266 of 30th May, 1907. Still open. Portion of revenue is paid to Natives of Reserve. Revenue for 1907 was £1,158, for 1908, actual receipts were £98·63—a sum of £15 (approximate value), royalty on gold won, due by Madibi Mines, Limited, being still outstanding.

Total Revenue for 1907, £1,233·75 ; 1908, £142·63.

(B) GOLD REEF AND ALLUVIAL DIGGINGS ON PROPERTY, WITH RESERVATION OF PRECIOUS METALS IN FAVOUR OF THE CROWN.

SPREEUWFONTEIN DIGGING AND MINE, situate on Farm Spreeuwfontein, Prince Albert Division.— Proclaimed under Proclamation 203 of 26th July, 1891, proclaimed abandoned by Proclamation 77 of 3rd March, 1898. Reproclaimed by Proclamation 370 of 3rd October, 1906. Revenue, 1907, £2·50; 1908, Nil.

APPENDIX IX.—RETURN of Base Mineral Leases in existence during the Year 1908.

Division and Description of Land.	Name of Present Lessee.	Extent.	Lease Rent.	Term of Lease.	Remarks.
		Sq. Rds.	Years.	From.	
1 Blaauwsteen ... CALEDON.	R. B. Hendry ...	97	24·38	5	1·7·07
5 Being portion B of the Hout Bay Forest Reserve... Lot P.P. Manganese ENGCOBO.	E. T. Boxall ... A. J. Parker and J. G. Pyra ...	69 298	141 371	17·81 31·6	30·1·06 11·8·08
6 At Zadungeni ...	T. Costello ...	...	250	62·70	Cancelled 23·5·08.
1 At Zadungeni Coal Section No. 2 ...	do. ...	...	492	376·90	Sec. 42 Act 16 of 1907.
2 GLEN GREY.	Indwe Rly. Coll. and Land Company, Ltd. ...	15·05	371	10	Lapsed.
1 On the Macubeni Commandage HAY.	...	472	281·52	5	22·11·02
9 On the Commandage of Griquatown	J. T. Vigne ...	...	38	Nil.	No Lease Rent is payable. Lease is under Act 3 of 1882, Sec. 1.
10 do.	A. Eland ...	...	502	99	9·7·02
12 do.	A. Brown ...	...	38	9·50	See New Lease—21. (a).
13 do.	J. T. Vigne ...	...	87·8	7·87	" " 25. (a).
14 do.	A. Eland ...	...	35	82	See New Lease—23. (a).
15 A. Brown ...	...	31	307	7·87	" "
16 On the Commandage of Griquatown	A. Eland ...	...	32	286	11·8·02
17 do.	A. F. Brown ...	...	40	8·12	See New Lease—26. (a).
18 do.	A. Eland ...	...	40	158	" "
19 do.	J. T. Vigne ...	...	76	10·06	28·10·02
20 P. G. de Villiers ...	...	39	401	5	" "
21 do.	A. Eland ...	...	39	19·17	9·7·04
22 do.	A. Eland ...	...	39	40	24. (a).
23 do.	A. F. Brown ...	...	39	240	" "
24 do.	A. E. Brown ...	...	38	9·85	19·11·05
25 do.	A. F. Brown ...	...	38	3	31·10·06
26 do.	A. F. Brown ...	...	38	9·50	3
27 Lot AA. Commonage of Postmasburg MALMESBURY.	E. Currie ...	...	476	9·73	5·3·07
1 Kreeft Bay Foreshore...	S. S. B. Mills ...	38	552	3	5·3·07
2 At the Insiswa Mountains	Mount Ayliff Developing Syndicate, Ltd. ...	...	38	9·73	3
3 Called Brooks Area	A. F. Payn ...	...	38	4·02	19·6·08
4 Called McGregor's Area	George Peel ...	...	39	4·17	(b)
5 Called Hornsby's Area...	...	...	32	3·43	19·6·08
6 Called Holgate's Area	The Insiswa Nickel, Copper and Cobalt Develop-	284	222	1	(b)
7 Called Button's Area	ing and Mining Company, Ltd. do.	...	71·09	24·10·06	" "
8 Drews Mining Area	South Namaqua Prospecting and Developing	248	255	5	24·10·06
9 Hornby's Area	B. S. Pattison ...	86	401	21·67	" "
10 Hawke's Mining Area	A. E. Gilson and Executors in Estate S. L. Hornby ... F. H. Tarlton ...	306 259 396	100 200 46	32·35 27·44 1	31·8·08 21·7·08 21·9·08

APPENDIX IX.—Continued.

Division and Description of Land.	Name of present Lessee.	Extent.	Lease Rent.	Term of Lease.	Remarks.
Mor. Sq. Rds.	Mor. Sq. Rds.	Mor. Sq. Rds.	£ per Sq. Rd.	Years.	From.
NAMAQUALAND.—(Continued.)					
149 Nipper ...	South African Copper Co., Ltd.	19 582	£ 9.90	96	22.1.01
151 E. of Schap River ...	E. A. M. de Marillac...	10 ...	2.50	9	23.9.02
152 Rietberg West ...	do.	20 298	5.13	8	2.2.03
153 Kodas Mine ...	W. St. J. Carr and S. Edkins	37 390	9.41	8	17.4.03
154 Nunes A ...	do.	33 440	8.41	"	"
155 Nunes B ...	do.	27 280	6.87	"	"
156 8 miles S. of Port Nolloth ...	do.	33 200	8.33	6	See New Lease 211. (a).
158 Extension to Lot 39 ...	Namaqua Copper Co., Ltd.	11 156	2.81	99	13.5.03
159 Ratel Poort ...	E. de Marillac	25 260	6.36	8	5.6.03
161 Homeep Extension ...	do.	35 532	8.97	5	10.6.03
162 Vaal Zyfer ...	do.	34 459	8.69	"	Cancelled from 9.6.07.
163 Mountain Boy ...	do.	17 576	4.49	"	Lapsed.
164 Luck and Prosperity ...	do.	18 154	4.56	"	"
165 Winifred ...	do.	41 56	10.27	"	"
166 Alice ...	do.	43 124	10.80	"	"
167 Egria ...	do.	85 282	21.37	"	"
168 Isabella ...	do.	27 540	6.97	6	Renewed for further 3 years from 8.6.09.
169 In the Steinkopf Mission Reserve ...	Consolidated African Copper Trust, Ltd.	33 464	8.44	"	"
170 do.	do.	30 587	7.75	"	"
171 Near Jackals Water ...	do.	43 63	10.77	"	"
172 4 Xbiam ...	do.	38 535	9.73	"	"
173 6 Xbiam ...	do.	25 555	6.48	"	"
174 Rietberg East ...	E. de Marillac	17 376	4.91	5	23.6.03
175 Namasen A ...	Messrs. J. H. Pearce, H. Griffiths and Estate A. H. Lowin,	7 419	1.92	"	Lapsed.
176 Namasen B ...	do.	2 121	5.55	"	"
177 Near Concordia ...	F. Oats...	22 84.5	5.53	6	20.10.03
178 At Witwater ...	do.	36 167	9.07	"	"
179 Schaap River Extension ...	Copper Fields of Namaqualand, Ltd.	123 451	30.94	5	11.4.04
179a Bulletrap S. Extension ...	do.	19 378	4.91	5	11.5.04
180 Burra Burra S. Extension ...	do.	8 175	2.07	"	"
181 Success Extension ...	E. de Marillac	16 156	4.07	"	"
182 Kraai Water ...	Consolidated African Copper Trust, Limited	48 138	12.06	"	"
183 Chubiesies ...	A. B. Hughes ...	38 371	9.45	6.9.04	See New Lease 214. (a).
184 The Salt Pan ...	F. W. Smith ...	65 149	16.31	4	16.6.05
185 Adjoining Wheal Julia ...	Namaqua Copper Co., Ltd.	186 46	46.52	3	20.6.05
186 Steenhok ...	A. N. Hughes & A. L. B. Chiappini	14 283	2.87	5	10.7.05
In the Steinkopf Mission Reserve ...	E. de Marillac	95 78	23.78	3	26.9.05
190 do.	E. A. de Marillac	59 437	14.93	5	5.6.06
191 do.	W. St. J. Carr and S. Edkins	37 502	9.46	5	9.7.06
192	do.	848 553	33	"	"

NOTES.—(a) Held under old lease for part of year, then converted under Section 49 of Act 16 of 1907 to new form of lease.

APPENDIX X.—Abstract of Chief Items of Work in the Compiling, Drafting, and Lithographing Branch of the Department during the year 1908.

	Description of Work.
(1) <i>Compiling</i> ...	Plan of Wynberg Municipality. (Completed.) Plan of Portion of Cape Flats between Wynberg and Muizenberg. (Completed.) Plan of Worcester Village. (Completed.) Plan of Ladismith Division. (Completed.) Plan of Calvinia Division (Portion of). (Completed.) Plan of Robertson and Montagu. (In progress.) Plan of Clanwilliam. (In progress.) Plan of Transkeian Territories. (In progress.)
(2) <i>Drafting</i> ...	Plan of Calvinia Village. Addition to Index Maps of the Colony. Bringing Registry of Divisional Maps up to date. Drawing up 250 descriptions of boundaries of Divisions, Magisterial Districts, Forest Areas, Municipalities, Field Cornecies, Periodical Court Areas, and land to be granted requiring Parliamentary sanction, and 35 Plans, illustrating same. 550 Diagrams for Titles, or for use of Surveyors in the Field. 570 Tracings of Plans for other Departments or to illustrate correspondence. 316 Diagrams, etc., for Deeds Office and Attorneys.
(3) <i>Lithographing</i> .	Plans of Vryburg, Kuruman, and Somerset East Divisions. Small Map of Cape Colony. Plans of Experimental Station, Robertson, and Transkeian Territories. (In progress.)

CAPE OF GOOD HOPE.

REPORT of the Inspector of Mines, Kimberley, and the Inspector of Claims, Barkly West, for the Year ended 31st December, 1908.

Presented to both Houses of Parliament by Command of His Excellency the Governor
1909.

I. REPORT OF THE INSPECTOR OF MINES, KIMBERLEY.

I have the honour to present my Report for the year 1908. It has been considerably curtailed, in accordance with instructions received.

DIAMOND MINES.

DIVISION OF KIMBERLEY.

The only mines at work in this Division in 1908 were those belonging to De Beers Consolidated Mines, Limited, and, owing to the depressed state of the diamond market, these were worked on a greatly reduced scale. There was a considerable reduction in the number of persons employed during the year. At the end of 1907 there were employed 3,072 white and 14,509 coloured; total, 17,581. At the end of 1908 the numbers were 1,695 white and 10,583 coloured, a total of 12,278. The lowest numbers reached in the year were 1,672 white and 8,698 coloured; total, 10,390. This is a great reduction, when compared with the end of June, 1907, when the figures were 4,144 white and 25,825 coloured; total, 29,969.

(a) Kimberley Mine.

Rock Shaft.—This shaft is 2,599 feet deep, and hoisting is done from the 2,520 ft. level; the prospect shaft, near the blue ground, is 470 feet below this level. Neither of these shafts was sunk during the year. At the end of the year the top working level was 2,360 ft. and the bottom 2,600 ft.

Mud-rushes.—There were two small mud-rushes on the 2,440 level, the first on the 11th March and the second on the 8th August, filling about 500 feet of tunnels, but no one was injured.

Water.—The average quantity of water pumped during the year was 6,359 gallons per hour, as compared with 6,872 for the previous year.

Open Mine.—The surface area of the open mine is about 38 acres. The average depth of the open mine is 880 feet from surface and 580 from the top of the hard rock. The deepest point is 995 feet from the surface.

Output.—The output of blue ground was 381,144 loads, of 16 cubic feet. There were also hoisted 19,521 loads of "reef" or waste ground.

Labour.—The average number of persons daily employed was returned as follows:—Underground, 42 white and 429 coloured; above ground, 158 white and 605 coloured; total, 1,234.

(b) De Beer's Mine.

This mine was closed down on the 31st July, but it is being kept drained. When operations were suspended the top working level was the 1,680 ft. and the bottom 2,120 ft.

Washing of De Beer's Mine ground ceased on the 15th December.

Water Tunnel.—The new section of the water tunnel, on the south side of the mine, was continued throughout the year, 960 feet being driven, completing the tunnel; but there are still about 300 feet of off-sets to be driven to the open mine.

Water.—The average quantity of water pumped (gallons per hour) was 2,399 from the rock shaft, and 1,285 from Victoria shaft, as compared with 2,831 and 2,177 for the previous year.

Open Mine.—The surface area of the open mine is about 41 acres.

Output.—The output of blue ground was 447,515 loads, of 16 cubic feet. There were also hoisted 21,961 loads of "reef" or waste ground.

Workshops, etc..—The average number of persons daily employed at the Workshops, Central Power Station, and Construction Department is returned as 561 white and 402 coloured; total, 963.

(c) Dutoitspan Mine.

Main Shaft.—This shaft is 860 feet deep, and the new rock shaft, referred to in my last Report, 522 feet. Neither was sunk during the year, but sinking of the latter has since been resumed.

Dutoitspan Mine was closed down on the 17th April, but pumping has been regularly continued. Washing blue ground ceased on the 31st January.

Water Tunnel.—With a view to driving a new water tunnel, the old Gordon shaft (about 300 feet from the edge of the mine, on the north-east side) was cleared and re-timbered to bottom, 266 feet, and then sunk to a depth of 378 feet. At this level a cross-cut has been driven towards the mine, striking the blue ground at 360 feet. At 200 feet from the shaft the water tunnel is now being driven east and west of cross-cut, in the black shale, just above the conglomerate, and at the end of the year 300 feet had been driven.

Water.—The average quantity of water pumped during the year was 8,533 gallons per hour, as compared with 9,633 in the previous year.

Open Mine.—The area of the open mine is about 52 acres.

Output.—The output of blue ground was 359,360 loads, of 16 cubic feet. There were also hauled 3,720 loads of "reef" or waste ground.

(d) Bultfontein Mine.

Development.—The distance driven and sunk during the year, in tunnels and passes, was $7\frac{1}{2}$ miles.

No. 2 Rock Shaft.—This shaft is 1,062 feet deep, and the main rock tunnel on the 1,000 ft. level, which is 1,335 feet in length, was holed on the 28th March.

Water.—The average quantity of water pumped during the year was 16,569 gallons per hour, as against 18,971 in the previous year.

Open Mine.—The area of the open mine is about 52 acres.

Output.—The output of blue ground was 1,123,970 loads, of 16 cubic feet. There were also hoisted 44,784 loads of "reef" or waste ground.

Labour.—The average number of persons daily employed was returned as follows:—Underground, 127 white and 1,807 coloured; on surface and open works, 188 white and 829 coloured; total, 2,951.

New Washing Plant.—A very fine washing plant has been erected on Bultfontein Floors, in which several new features have been introduced.

(e) Wesselton Mine.

Development.—The distance driven and sunk during the year, in tunnels and passes, was $6\frac{1}{2}$ miles.

Rock Shaft.—This shaft is 1,119 feet deep. At 980 feet a main rock tunnel has been driven to the mine, and was connected with the tunnel from the prospect shaft on the 10th December. The distance from shaft to the mine is 700 feet, and from thence to the prospect shaft 790 feet, a total of 1,490 feet.

Water.—The average quantity of water pumped (gallons per hour) was 14,306 from the rock shaft, and 20,480 from the water tunnel, a total of 34,786, as compared with 28,966 for the previous year.

Area of Open Mine.—The area of the open mine is about 35 acres

Output.—The output of blue ground was 1,463,207 loads, of 16 cubic feet. There were also hoisted 181,241 loads of "reef" or waste ground.

Labour.—The average number of persons daily employed was returned as follows:—Underground, 98 white and 1,331 coloured; on surface and open works, 316 white and 1,725 coloured; total, 3,470.

Summary.

Explosives.—The following were the explosives used during the year:—Dynamite, 751 tons; blasting gelatine, 17 tons; gelignite, 11 tons; total, 779 tons.

Fuel.—The fuel consumed, in tons of 2,000 lbs., was:—Coal, 86,446 tons; and wood, 7,105 tons.

Cattle.—The average number of horses and mules daily employed was 868.

Wages.—Wages to white men ranged from £3 to £5 10s. per week, and to coloured averaged 24s. per week and lodging.

Development.—The underground development during the year, in tunnels and passes, was about $17\frac{1}{2}$ miles.

Labour.—The average number of persons daily employed in 1908, according to returns furnished, was:—Underground, 338 white, 4,518 coloured = 4,856; on surface and open works, 1,693 white, 5,309 coloured = 7,002; total, 2,031 white and 9,827 coloured = 11,858. The percentage of natives to total number of employees underground was 93, and on surface and open works 76.

Nationalities.—The percentage of nationalities of white employees is as follows:—English, 34·5; Scotch, 9·0; Irish, 4·0; Welsh, 1·0; South African, 46·0; European, 2·5; American, 1·0; Canadian, 0·2; Australasian, 1·2; other, 0·6=100·0.

Accidents.—Tables giving particulars of all the accidents reported from the mines in the Kimberley Division and the mines in which accidents happened are given in Appendix I.

Death-rate.—A table showing the death-rate from accidents per 1,000 persons employed, for the last seven years, will be found on reference to Appendix II.

All the accidents, except trivial ones, were carefully enquired into, and I am sorry that space is not available for a full description of them.

Explosives.—Particulars of the accidents in connection with explosives will be found in the Report of the Mines Inspector of Explosives (Annexure I.). I am glad to say there was no fatal accident from explosives for the year.

General Remarks.

Output and Persons Employed.—The following table gives the average daily number of persons employed, output of diamondiferous ground, and quantity of reef hauled at the various mines in the Kimberley district for the last five years:—

	1904.	1905.	1906.	1907.	1908.
Persons employed :					
White No.	2,755	2,974	3,708	3,583	2,031
Coloured No.	11,407	15,333	20,176	18,190	9,827
Output : Loads of 16 cubic feet	5,142,729	7,684,707	9,560,561	7,959,090	3,775,196
Reef hauled : Loads	1,563,946	1,549,253	1,677,371	1,244,586	271,227

During the year De Beers Company washed 4,007,038 loads of blue ground, 47,053 of lumps, and 1,511,337 of tailings; and at the end of the year had 9,627,752 loads of blue ground and 676,834 of lumps on the floors.

Average Yield.—The average yield of diamonds, as given in the last annual report of the General Manager of De Beers, was:—

From De Beers and Kimberley Mines...	'37	of a carat per load.
From Wesselton Mine	'27	" "
From Bultfontein Mine	'32	" "
From Dutoitspan Mine	'23	" "

Production of Diamonds.—The following table, showing the production of diamonds in the Cape Colony for the last three years, will be interesting. The figures have been kindly supplied by the Detective Department:—

Year.	From District of Kimberley.			From Districts of Barkly West, Hay and Herbert, including quantity on Vaal River.			Total.	
	Total Weight.	Value	Average.	Total Weight.	Value.	Average	Weight.	Value.
	Carats.	£	per Carat.	Carats.	£	per Carat.	Carats.	£
1906...	2,641,260 $\frac{1}{2}$	6,600,297	2 9 11 $\frac{2}{5}$	101,607 $\frac{1}{2}$	392,514	3 17 3	2,742,867 $\frac{1}{2}$	6,992,811
1907...	2,470,194 $\frac{1}{2}$	5,959,701	2 8 2	110,758 $\frac{1}{2}$	355,588	3 4 2	2,580,953 $\frac{1}{2}$	6,315,289
+1908 .	1,467,940 $\frac{3}{4}$	2,695,479	1 16 8	120,570 $\frac{1}{2}$	389,873	3 4 8	1,588,511	3,085,352

* 1907 includes 1,069 carats value £1,493 from other places.

† 1908 " 3,171 $\frac{1}{4}$ " 10,329 from alluvial diggings, average price per carat £3 5s. 1 $\frac{1}{2}$ d.

DIVISION OF BARKLY WEST.

The only mine at work in this Division during the year was the Welgelegen Diamond Mining Company, Limited, which suspended operations on the 17th October.

The work in the open mine was principally at the 160 ft. level. It is estimated by the management that when operations ceased there were 260,000 loads on the floors.

A very complete new washing plant was erected, and started washing about the middle of August.

Labour.—The average daily number of persons employed is returned as 10 white and 300 coloured, on surface and open works.

Accidents.—Nil.

DIVISION OF HAY.

Peiser Mine.—On the 23rd September operations were resumed on a small scale at the Peiser Mine. A pump was started on the 28th October, and I believe it is intended to continue working the mine.

COAL MINES.

The coal mines again had a bad year, owing to the falling-off in the demand and the lower prices obtainable. Compared with 1907, the quantity sold was less by 21,175 tons and the amount realised by £27,157, a depreciation respectively of 14·7 and 22·86 per cent. At the same time, according to the returns furnished, there was an increase of 67 in the number of persons employed.

I have divided the coal mines into the same districts as in previous years, viz.:—

- A. Indwe.
- B. Cyphergat and Wallsend Companies.
- C. Molteno Mines: Molteno No. 1, Westmead, Penshaw Collieries, and Monarch Collieries.
- D. Romansfontein Mine, Castleton Colliery, New Cape Collieries, the Mines on Zandfontein, and Blount's Colliery.

Output and Persons Employed.—A table giving the returns of Output and average number of persons employed for the years 1904, 1905, 1906, 1907, and 1908 will be found on reference to Appendix III.

Value of Output.—The following table gives, as far as I can ascertain, the value of the output, *at the Mines*, since 1899:—

Date.	Tons.	Value.	Average per Ton.	
			£	s. d.
1899 ...	208,655	133,650		12 10
1900 ...	198,451	152,581		15 4½
1901 ...	205,810	180,422		17 6
1902 ...	185,424	158,929		17 1½
1903 ...	207,493	178,851		17 3
1904 ...	172,785	153,503		17 9
1905 ...	164,112	136,928		16 8
1906 ...	142,877	117,852		16 6
1907 ...	144,040	118,776		16 6
1908 ...	122,865	91,619		14 11

Explosives.—The quantity of explosives used was $7\frac{1}{4}$ tons of dynamite and 5 tons of powder.

Accidents.—There were 12 accidents during the year, by which 1 white man and 5 natives were killed and 5 natives injured. A native also died from an accident received in 1907, bring the total deaths to 1 white and 6 coloured. This is heavier than for many years past. No white man had been killed since 1900, and the number of white men employed is so small that a single death brings the rate per 1,000 up to 11·765. The white miner was killed by a fall of roof at Indwe whilst he was drawing timber from a finished gateway.

Death-rate.—A table giving the death-rate from accidents, per 1,000 persons employed, since 1898, will be found in Appendix II.

The percentage of natives to total number of employees underground was 94, and on surface 86.

Prosecution.—The Manager of the Black Prince Mine, Cyphergat, was charged before the Magistrate at Molteno with contravening the blasting rules, in connection with the fatal accident already referred to. It was a bad case, and he was fined £10.

GOLD IN THE DIVISION OF MAFEKING.

Madibi Mines, Limited, was worked for about six months of the year by Messrs. Dollar & Watson, of Johannesburg, under tribute to the Company. The principal part of their work was at the bottom level of the mine, where the reefs are refractory, and it is understood that they experienced considerable difficulty in treating the tailings. The amount of standard gold returned by them was 330·73 ozs., value £1,273 11s. 6d. I understand negotiations are at present proceeding between the Company and some influential Johannesburg capitalists with a view to re-working the mine, and also another block of 50 claims adjoining.

I believe the only Syndicate doing any prospecting or development work at the end of the year was the Port Elizabeth Madibi Syndicate. But I do not think it can

be said that the majority of the Syndicates have done enough work to fairly test the claims.

On the Kraaipan belt, 30 miles south of Madibi, a considerable amount of work was done by the Wodehouse Gold Syndicate, with very encouraging results. A good supply of water was struck in a shaft sunk for that purpose, a five stamp battery has been erected, and the results of the trial crushings will be watched with much interest.

The Constance Syndicate, in the same locality, is also erecting a five stamp battery, and sinking a shaft for water. The reefs being developed are said to yield good assays, and the crushings here, too, will be very interesting.

Some other parties are prospecting in the same district.

OTHER MINERALS.

The following Return, relating to other Minerals, from the Copper Mines of Namaqualand, from Tin Mines, and Asbestos Mines, has been obtained for 1908. The mines not having been proclaimed, I have no information as to accidents, etc.:—

	Average persons daily employed		Minerals produced.	
	White.	Coloured.	Quantity.	Approximate Value.
Copper Ore	No. 374	No. 2,101	Tons. 108,708	£ 430,995
Tin Ore	No information.		45	3,500
Asbestos	22	715	1,267	19,436

THOS. QUENTRALL,
Inspector of Mines.

ANNEXURE I. TO THE REPORT OF THE INSPECTOR OF MINES, KIMBERLEY.

REPORT OF THE MINES INSPECTOR OF EXPLOSIVES, KIMBERLEY.

The following is a return of the number of persons injured in the Kimberley Diamond Mines by the use of explosives during the year 1908. It is a pleasure to report that no person was killed by explosives in the mines during the year:—

Cause of Accident and Name of Mine.	Separate Accidents. No.	Persons Injured.	
		White.	Coloured.
Explosion whilst breaking lumps of ground with hammer.			
Du Toit's Pan Mine	1	...	3
Struck by ground from a blast whilst assisting to light charges. Bultfontein Mine	1	...	1
Explosion caused by ground crushing whilst hole was being charged. Wesselton Mine	1	1	5
Grand Totals	3	1	9

R. A. SKELDING,
Mines Inspector of Explosives.

APPENDIX I.—Accidents in Diamond Mines. Summary, 1908.

Diamond Mines. Summary of Accidents, 1908.	Separate Accidents.	Underground.				On Surface and Open Works.							
		Persons Killed.		Persons Injured.		Persons Killed.		Persons Injured.					
		White.	Coloured.	White.	Coloured.	White.	Coloured.	White.	Coloured.				
I. PLACE OR CAUSE OF ACCIDENT.													
Falls of ground	33	1	11	2	23	14	...	2	...	13
Whilst ascending or descending shafts or machinery	...	2	...	1	1	1	...	...	...	...	...	...	...
Falling down shaft	1	...	...	1	...	...	...	...	...	...	...
Falls from ladders	2	...	...	2	...	2	...	...	...	...	...
Falling down "pass"	1	...	1	1	...	...	...	...	...	...	...
Falling into chute and skip	1	...	...	1	...	3	...	...	...	...	...
Ground falling off side of shaft	1	...	1	1	...	3	...	...	...	...	...
Things falling down shafts	2	...	1	1	...	1	...	...	...	...	...
Hot air and fumes from inrush of smouldering shales from open Mine at Wesselton	1	2	5	...	...	...	...	...	...	...	...
Ignition of gas	1	...	1	...	...	...	...	...	...	...	...
Electric shock	1	...	...	1	...	...	...	...	...	...	...
On tramways or by trucks	16	...	...	5	11	53	...	...	4	49	
Explosives	2	...	...	4	1	...	...	...	1	5	
Miscellaneous	18	...	...	9	9	
Total	64	3	21	11	44	86	...	2	14	76	
2. MINES WHERE ACCIDENTS OCCURRED.										...	...	...	...
Kimberley Mine	4	...	1	1	2	3	...	...	1	2
De Beers do.	9	...	3	2	4	11	...	...	4	7	
De Beers Workshops and Construction Department	6	...	...	5	1
Dutoitspan Mine	3	...	1	...	4	5	...	...	...	5	
Bultfontein do.	34	...	5	6	27	14	...	...	1	14	
Wesselton do.	14	3	11	2	7	47	...	2	3	47	

APPENDIX II.—Death Rate from Accidents per 1,000 persons employed in
(a) DIAMOND MINES and (b) COAL MINES. Summary (a) for 7 years and (b) for 10 years.

Death Rate from Accidents per 1,000 Persons Employed.	Under Ground.			On Surface and Open Works.			Total.			
	White.	Coloured.	Total.	White.	Coloured.	Total.	White.	Coloured.	Total.	
DIAMOND MINES.										
1902	...	8·403	11·372	11·037	...	1·402	1·125	1·424	4·222	3·732
1903	...	5·449	5·962	5·904	...	0·932	0·742	0·877	2·316	2·056
1904	...	7·595	4·718	5·036	0·847	1·458	1·322	1·815	2·367	2·259
1905	...	5·871	8·297	8·074	0·812	1·655	1·492	1·681	3·848	3·495
1906	...	6·702	5·101	5·240	0·675	1·459	1·307	1·888	2·875	2·721
1907	...	8·299	5·792	6·020	1·049	1·645	1·522	2·512	3·298	3·169
1908	...	8·875	4·648	4·942	...	0·376	0·285	1·477	2·340	2·193
COAL MINES.										
1898	...	10·526	3·066	3·364	...	5·454	4·983	6·802	3·526	3·691
1899	...	10·526	2·444	2·746	...	...	...	6·993	2·110	2·344
1900	...	20·408	2·350	3·018	...	4·092	3·722	11·696	2·739	3·182
1901	2·054	1·976	...	...	...	...	1·626	1·545
1902	2·511	2·382	...	...	...	...	1·946	1·821
1903	1·880	1·790	...	...	...	...	1·383	1·304
1904	3·198	3·061	...	...	...	...	2·366	2·233
1905	1·199	1·146	...	1·620	1·426	...	1·312	1·227
1906	0·731	0·696	...	2·150	1·927	...	1·091	1·022
1907	...	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.
1908	...	11·765	4·144	4·566	...	...	5·952	3·093	3·321	

APPENDIX III.—*Coal Mines.* Output and average number of persons employed for 5 years—1904 to 1908.

Year, District and Output in tons of 2,000 lbs.	Persons ordinarily employed during the year.										
	Underground.			Above Ground.							
				Males.		Females.				GRAND TOTAL.	
	White.	Coloured.	Total	White.	Coloured.	White.	Coloured.	Total	Total		
1904	A ... 106,929	47	593	640	44	242	...	148	434	1,074	
	B ... 24,252	11	332	343	8	20	...	23	51	394	
	C ... 17,502	9	336	345	7	62	...	20	89	434	
	D ... 24,102	17	615	632	9	35	...	109	153	785	
1905	A ... 91,086	43	485	528	55	249	...	109	413	941	
	B ... 22,442	8	247	255	12	27	...	13	52	307	
	C ... 16,791	6	238	244	9	41	...	18	68	312	
	D ... 33,793	19	698	717	8	30	...	130	168	885	
1906	A ... 68,480	32	283	315	38	143	...	66	247	562	
	B ... 20,330	9	221	230	3	16	...	7	26	256	
	C ... 18,576	7	246	253	4	22	...	24	50	303	
	D ... 35,491	21	618	639	9	32	...	155	196	835	
1907	A ... 78,706	43	405	448	46	173	...	85	304	752	
	B ... 18,036	11	257	268	8	20	...	11	39	307	
	C ... 14,865	10	294	304	5	17	...	34	56	360	
	D ... 32,433	17	468	485	13	33	...	91	137	622	
1908	A ... 64,859	45	398	443	60	166	...	100	326	769	
	B ... 13,175	9	220	229	5	17	...	9	31	260	
	C ... 15,449	10	335	345	6	27	...	30	63	408	
	D ... 29,382	21	495	516	12	34	...	109	155	671	
Districts	1904 ... 172,785	84	1,876	1,960	68	359	...	300	727	2,687	
	1905 ... 164,112	76	1,668	1,744	84	347	...	270	701	2,445	
	1906 ... 142,877	69	1,368	1,437	54	213	...	252	519	1,956	
	1907 ... 144,040	81	1,424	1,505	72	243	...	221	536	2,041	
	1908 ... 122,865	85	1,448	1,533	83	244	...	248	575	2,108	

REPORT OF THE INSPECTOR OF CLAIMS, BARKLY WEST, FOR THE YEAR 1908.

Revenue.—The revenue collected during the year ended 31st December, 1908, amounted to £12,964 15s. (For details see Annexure A.)

As compared with the previous year, the revenue shows a decrease of £742 18s. 1d., which is chiefly accounted for by the fact that during the whole of 1908 claim licences were only 5s. per claim, whereas for the first 9 months of 1907 they were 10s. per claim. The decrease in trading and residential sites rents is accounted for by the survey and sale of the lots at Longlands in April last. The following table shows the actual increases and decreases:

Increases:—Licences, Mines, £202; Transfers, £113; Miners' Certificates, £70·25; Reservation Certificates, £79·25; Survey expenses, £15; Sale of harness, £2·3; Lease rent, £54. *Total, £423·93.*

Decreases:—Alluvial Licences, £1,009·75; Trading Site rent, £145·48; Royalty on flint pebbles, £11·6. *Total, £1,166·83.*

Leaving a total decrease of £742·90.

At one time I was in hopes that the collection of flint pebbles on the Alluvial Diggings would develop into a payable industry, but it has now quite ceased, the flints evidently not being suitable.

Of the amount of revenue collected, the sum of £4,336 2s., has been refunded to owners of those farms upon which proclaimed alluvial diggings are situate, leaving a net revenue of £8,628 13s.

WEIGHT AND VALUE OF DIAMONDS FOUND.

The approximate weight and value of diamonds imported into Kimberley from the Barkly West and Herbert Divisions (data kindly supplied by the Detective Department) were 118,499½ carats, valued at £388,721 10s. 5d.. Of this, 78,045 carats, value £264,268 4s. 6d., were found on the proclaimed alluvial diggings, the

balance having been won from mines and unproclaimed areas in this and the Herbert Divisions. The year opened with the average price of alluvial diamonds standing at £2·67 per carat, and closed with the much improved price of £4·07 per carat.

NEW DIGGINGS.

The year was marked by the opening up, in this and the Herbert Divisions, of several extensive fresh areas, as follows:—

1. Mayer's Prospect, on the farm H.V. No. 5, Proclamation No. 259 of 29th June, 1908.
2. Viljoen's Rush, proclaimed area extended on 23rd April, 1908, by Notice in the "Government Gazette."
3. Williamston, on the Farm H.V. No. 4, Proclamation No. 397 of 10th September, 1908.
4. Rickett's Prospect, on farm H.V. 89, Proclamation No. 478 of 16th October, 1908, area extended on 7th December, 1908, by Notice in the "Government Gazette."
5. Longlands and Delport's Hope, extended by Proclamation 182 of 1908.
6. Good Hope and Bad Hope, extended by Proclamation 220 of 1908.
7. Sivonellis, in the Herbert Division, extended to whole farm by Proclamation 10 of 8th January, 1908.

Of the new areas opened up, Mayer's Prospect caused great excitement, and hundreds of diggers and others, from all parts, flocked to the Diggings in the hopes of making fortunes. The cause of the excitement was the finding by the prospector of a wonderfully rich patch, rivalling all past discoveries in alluvial. In a small piece of ground measuring 70 claims in all some £30,000 worth of diamonds have up to the present been found.

Those diamonds found and sold during the prospecting stages would have realised double the amount they did, had they been disposed of a few months previously or subsequently. It was, of course, naturally expected that the "run" or "lead" of so wonderful a patch would extend to the other portions of the farm, and, at the opening, a record rush took place. Unfortunately, the result of a couple of months' operations saw an end to many hopes, and agitation set in for the proclamation of the adjoining farm H.V. 4, known as "Williamston." This followed in due course, but here again sanguine hopes were dashed to the ground. In the meantime prospecting operations were started on a very extensive scale on the farm H.V. 89, "Holsdam," many Diggers paying the Owner £2 per claim for the right to prospect. In due time portion of this farm was thrown open to the public; the area was subsequently extended, and now forms the biggest Camp on the River Diggings. Results so far have not proved altogether satisfactory, and the Diggers are therefore turning longing eyes to the next farm, which, up to the present, the Owner refuses to have prospected.

Leased Mines.—The following Mines in this District are still held under Lease: Leicester Mine, Balmoral Mine, and Newlands Nos. 1 and 2. All other Leases have expired.

A small amount of work was done during the year in Newlands No. 2 Mine.

Leased Diggings.—Surveyed Gong Gong. During the year the Vaal River Diamond Company, Limited, regularly employed in this area 1 European manager, 1 European overseer, and 17 native labourers. Sinking, driving, hauling, washing, and sorting were carried on during the whole period, 25 shafts having been put down, averaging in depth from 27 to 90 feet.

Other Mines.—Smith's Prospect Mine.—In this Mine 423 claims are held by the Frank Smith Diamond Estate and Exploration Company, Limited, and 30 claims by the Welgelegen Diamond Mining Company, Limited.

No work whatever was done by the first-named Company during the year, but the last-named Company continued operations up to October last.

Otto's Prospect Mine.—The Welgelegen Diamond Mining Company, Limited, hold all the claims (172) in this mine, and continued operations up to October last.

Diggers' Committees.—There were four Diggers' Committees operating in this District and one in the Herbert Division during the year. Of the first four, the "United Harrisdale Section Diggers' Committee" was formed in September last.

Number of Diggers and work done.—While in August last, during the excitement caused by the finding of Mayer's Prospect, there were 1,800 claimholders, on the 31st December last there were only 1,429, made up as follows:—Europeans 1,125, Indians 21, Coloured 132, Natives 151. These claimholders employed approximately 6,430 labourers, who received an average wage of 10s. each per week, without food. There was a fair supply of labour during most of the year, but during the "breakwater" season there was a scarcity of labour.

The river bed attracted a great deal of attention: enormous "breakwaters" were built at Delport's Hope, Longlands, and Good Hope, each of which entailed

the expenditure of large sums of money. The results, on the whole, were satisfactory. The water in the river remained very low until well into December, giving the Diggers great opportunities of working out their holdings, of which every advantage was taken. Large gangs of native labourers were employed, and one gang vied with the other to get the ground out; indeed, the "breakwaters" presented very busy and animated scenes, and were well worth a visit. Delport's Hope was particularly favoured in respect of diamonds found, and has the record of turning out the biggest diamond which has, I believe, been found on the River Diggings, namely, a 337½ carat, found in the claim of Mr. Robert Gove. The paying nature of the river bed as compared with the red shallow alluvial is proved by the following figures:—For the 5 months of the river season the total output from all sources on proclaimed alluvial diggings was 40,943½ carats, valued at £161,764 6s., as against 37,101½ carats, valued at £102,503 18s. 6d., produced during the earlier 7 months of the year.

In the red shallow alluvial ground the chief attraction for some couple of months was the vicinity of "Mayer's Prospect," already mentioned, followed by the alluvial deposits on "Williamston." Then "Rickett's Prospect" became the attraction, and is, at present, being extensively worked by a large number of Diggers. On the original "Mayer's Prospect" a 308 carat diamond was found in the "tailings" left by the prospectors, but it was not a good stone.

The deep alluvial at Gong Gong continued to be extensively worked, and some of the claims yielded many valuable stones.

The frequent opening of new areas and consequent "rushes" which took place caused myself and staff a considerable amount of work and anxiety, but, thanks to the help given me by the Cape Mounted Police and the members of the Detective Department, but chiefly to the assistance and good order of the Diggers themselves, I was able to cope with and perform the work.

Accidents.—Twelve accidents were reported during the year, one of which was fatal.

On the 27th January, a Native labourer had his leg broken in a claim at Gong Gong.

5th February, a Native labourer had his knee badly hurt by a fall of rock.

5th February, a Native labourer had his finger cut off by machinery.

5th February, a young man named Pretorius got caught in a fall of ground, but was fortunately extricated before serious injury took place.

14th February, a Native labourer had his head broken by letting go of a windlass handle.

25th February, owing to the careless handling of a bucket at the top of a shaft, it fell down on to a Native's head and badly lacerated it. Wonderful to relate, the skull, however, was not cracked.

6th March, a splinter flew off a rock a Native was smashing with a hammer, and badly injured his knee.

9th April, a boy lost a finger in carelessly oiling machinery.

11th May, a Native, being hauled to the surface, slipped down the rope and was caught by the hook at the end, which tore him badly.

1st June, a claimholder, named John Brough, had his ankle badly crushed by a fall of roof:

29th September, a native in Mr. Rademan's claim at Gong Gong had his leg broken by a fall of roof.

Except Mr. Brough and one of the Natives with the broken leg, all the injured men have recovered, and are at work again. Investigation into causes of accidents did not disclose any undue carelessness on the part of claimholders.

On 6th September last, Mr. Charles Pitman, European, in walking towards his tent, past some open shafts, pitched, head foremost, down one. The shaft was some feet away from the footpath he was using, and his labourers, who were following, saw him suddenly disappear. An inquest was held, and verdict returned that it was an "accidental death."

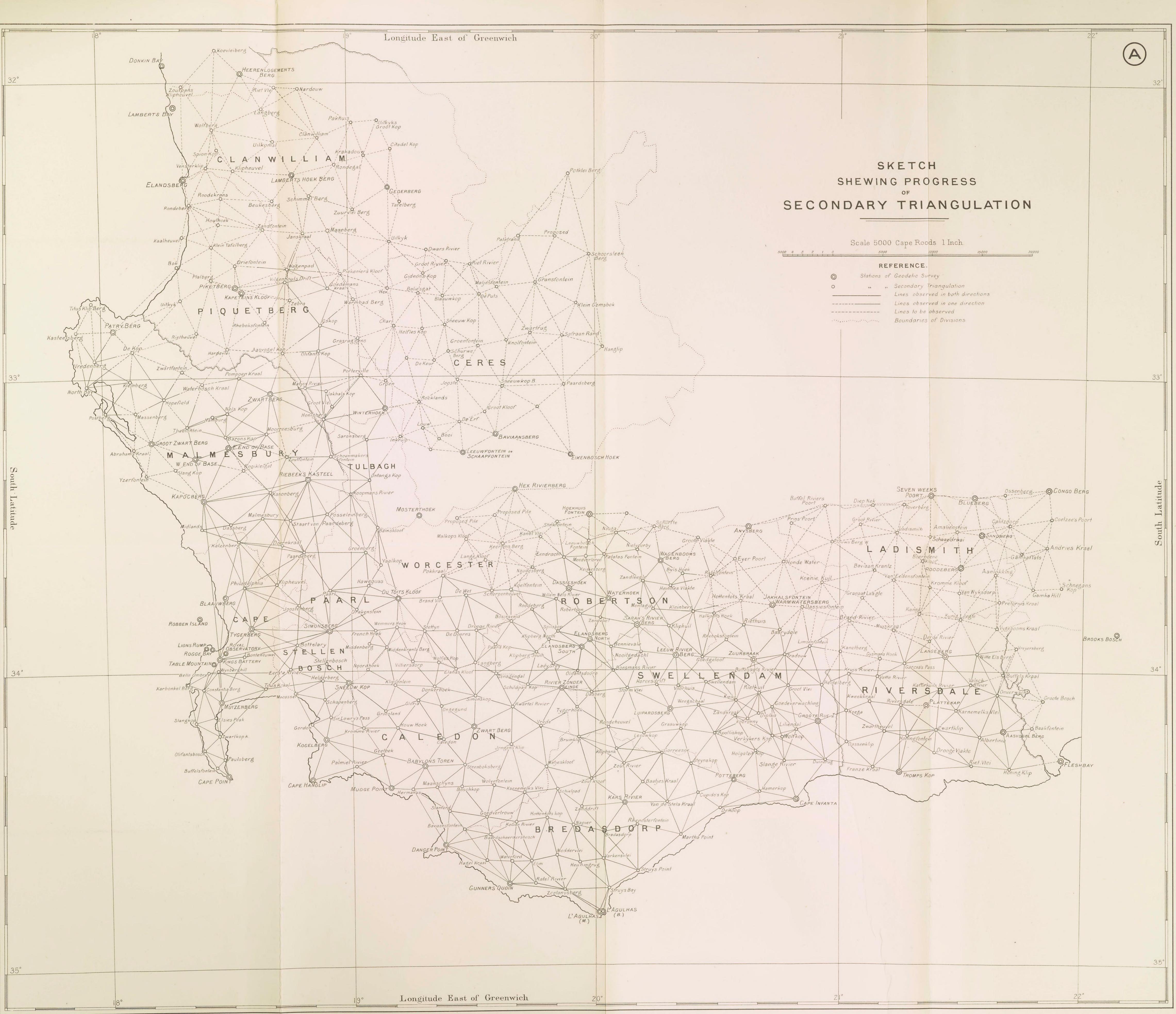
General.—The improvement in the price of diamonds, which began in August last, materially relieved the distress on the river diggings, but even so, I may be permitted to point out how precarious an existence alluvial diamond digging proves itself to be. To revert to figures again:—An average of 1,454 diggers worked during the year; diamonds realised £264,268 4s. 6d., or an average of £181 15s. per digger; each digger employed an average of 4½ labourers; the average cost of labour, therefore, was £117 per annum, leaving the claimholder with a balance of £64 15s. with which to meet living and many other working expenses.

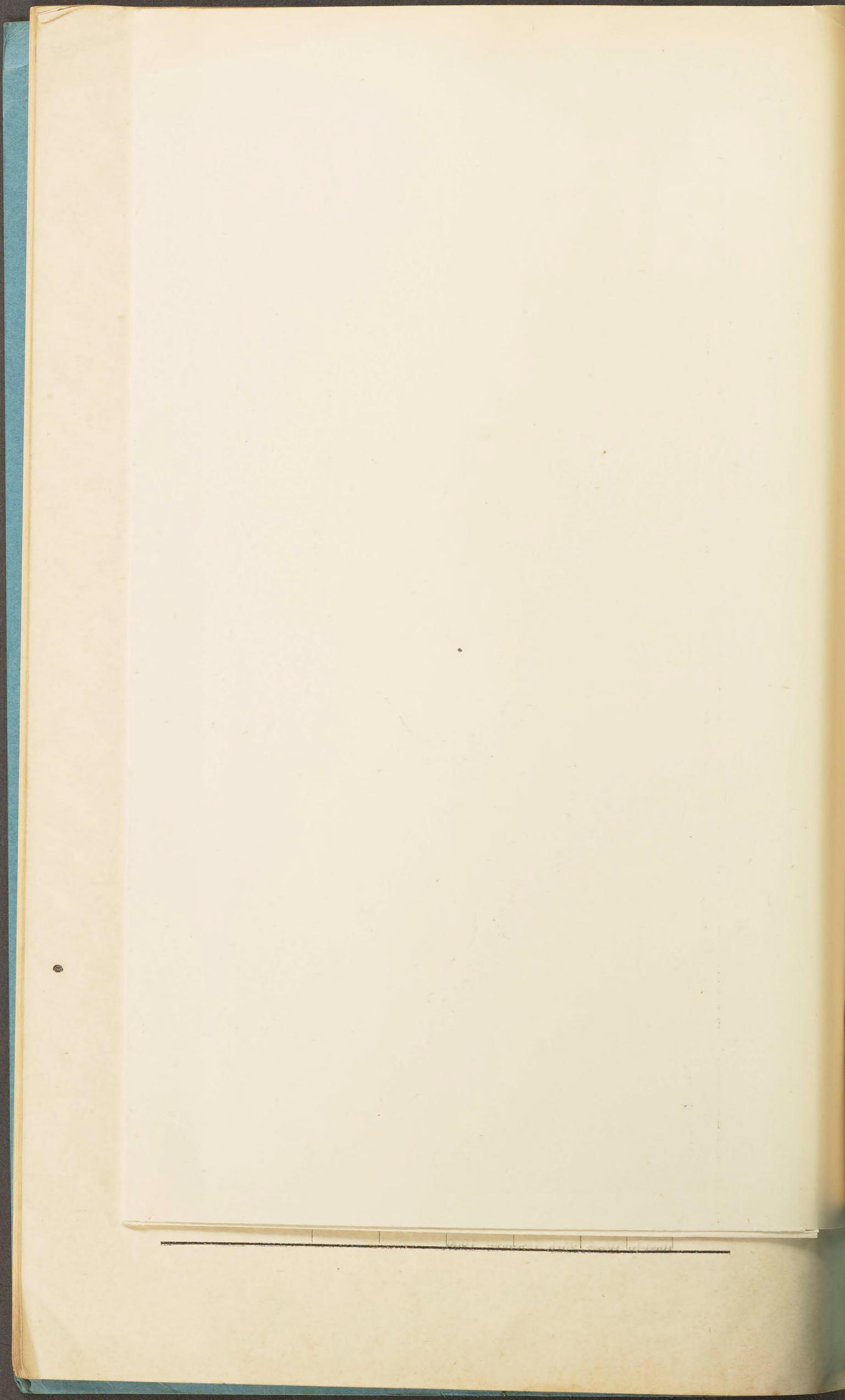
HERBERT REES,
Inspector of Claims,

Inspector of Claims Office,
Barkly West, 25th January, 1909,

ANNEXURE A.—Detailed Statement of Revenue collected by the Inspector of Claims, Barkly West, during the Year, 1908.

Digging or Mine.	Registration Certificates.	Miner's Certificates.	Reservation Certificates.	Transfer Certificates.	Trading Sites.	Residential Sit.s.	Total.
SUMMARY.							
Kimberley Division ...	190·5	27·5	...	...	...	...	218
Herbert Division ...	348·5	113·75	3·8	...	30	...	496·05
Barkly West Division :							
Diggings	5736·5	1540	278·4	73·5	220	42·5	12179·4
Mines	4288·5	...	...	...	...	...
Totals ...	10564	1681·25	282·2	73·5	250	42·5	12893·45
Refund Survey Expenses ... ...	...	...	...	...	...	...	15
Sale of old harness ...	...	...	...	...	...	...	2·3
Lease Rent ... ...	...	...	...	...	...	...	54
Total Revenue ...	...	...	...	...	...	...	12964·75
DETAIL.							
Wedberg	54·5	17	...	...	...	...	71·5
Robinsons No. 1 ...	136	10·5	...	...	...	...	146·5
Brady's Prospect ...	...	·75	...	...	...	...	·75
Jonas Kopje	5·25	·75	...	...	...	...	6
Ward Hope	13·5	1·75	...	...	...	...	15·25
Hebron	429·25	134·75	29	6·63	40	...	639·63
Klipdam	240·25	109·25	...	...	...	...	349·5
Holpan No. 1	26	40	...	...	...	...	71·5
," 2	7		...	...	...	...
," 3	58		...	...	...	...	131
Rocklands	4·75	2	...	...	...	...	6·75
Van Zoelens Laagte ...	50	13	...	...	...	...	63
Jacobs Prospect ...	7·25	2·5	...	...	...	...	9·75
Scholtz Prospect ...	293·75	100·25	...	...	...	...	394
Snyders Rush ...	85·5	22·5	...	...	...	...	108
Viljoens Rush ...	53	3·75	...	...	...	...	56·75
Harrisdale	669·5	225	...	...	...	...	894·5
Mayers Prospect ...	396·5	130·5	...	6·38	...	...	533·38
Williamston	84	19·75	...	...	...	...	103·75
Ricketts Prospect No. 1	153·5	76·75	...	...	...	...	365·75
," " 2	135·5	113·75	...	...	...	...
Klipdrift	210		14·6	...	...	25	363·35
Good Hope	267·75	63·25	23·95	4·87	...	...	359·88
Bad Hope	32·75	2·25	2·55	...	...	...	37·55
Gong Gong	749·25	86·5	15·4	3	...	...	854·15
Union Kopje	42	7·5	4·2	...	...	...	49·7
Keiskanna North ...	41·75	10·5	...	...	...	...	52·25
Waldecks Plant ...	486·5	61·75	47·85	1·62	...	...	597·72
Forlorn Hope ...	76·75	14·5	12·1	...	20	...	123·35
Niekerks Rush ...	109·5	32·25	...	...	...	...	141·75
Longlands	366·25	110·75	42·95	3·25	30	17·5	570·7
Esterhuizens Rush ...	...	...	...	...	...	...	...
Winters Rush ...	163·25	36·75	16·5	3	45	...	264·5
Delports Hope ...	476·5	116·75	73·3	43·5	85	...	795·05
Ver van Hier	1·75	·25	...	...	...	...	2
Schmidts Drift Proper							
Diggings	9	3·25	3·8	...	10	...	26·05
Platdrift	55·25	13·25	...	...	20	...	88·5
Sivonellis	132·5	49·5	...	...	...	...	182
Brypaal	151·75	47·75	...	...	...	...	199·5
Smiths Prospect Mine	2742·5	...	...	1·25	...	...	2743·75
Ottos Prospect Mine ...	946	...	...	...	...	...	946
Balmoral Mine ...	600	...	...	...	...	...	600
Refund Survey Expenses ... ...	...	...	...	...	...	...	15
Sale of Harness ...	...	...	...	...	...	...	2·3
Lease Rent, Herbert Division ... ...	...	...	...	...	...	...	54





Longitude East of

SKETCH
SHEWING PROGRESS
OF
SECONDARY TRIANGULATION
OF
PONDOLAND & EAST GRIQUALAND.

Scale 5000 Cane Beads = 1 Inch

B

South Latitude

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